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No. 2360.

APRIL 18, 1925.

Vol. CII.



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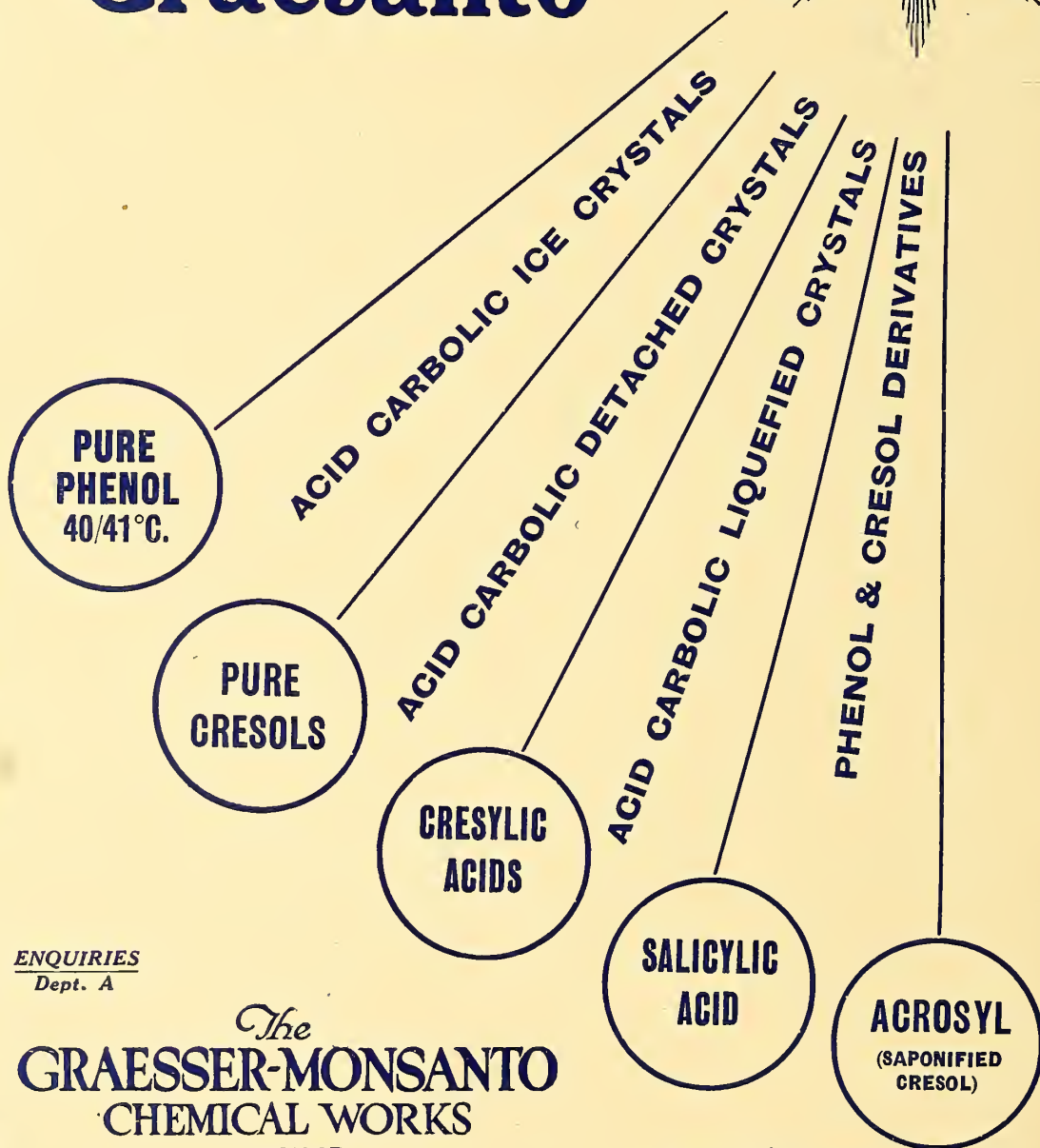
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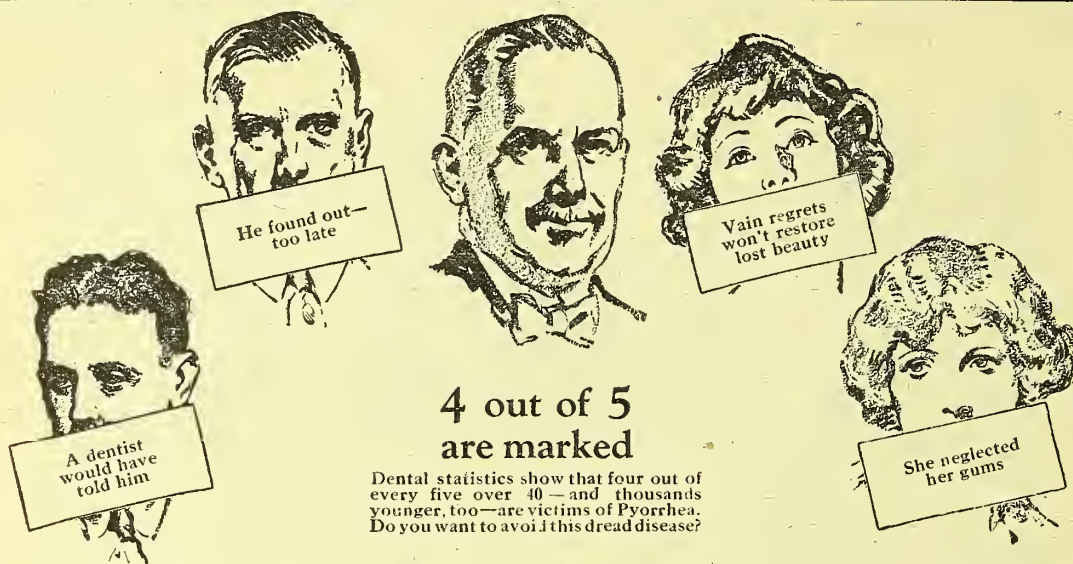
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FOR THE GUMS

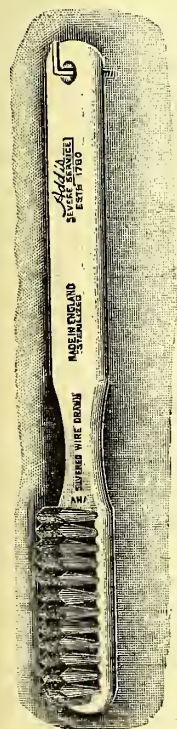
More than a tooth paste—
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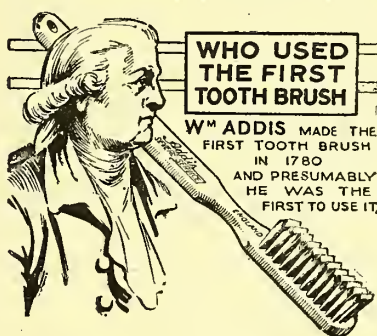


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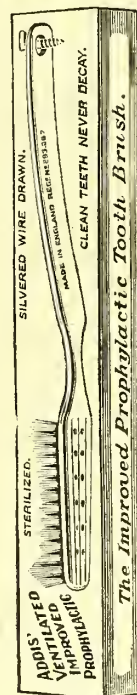


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When you offer your customer one of these he knows you are offering the best obtainable, not just selling for profit. At the same time ADDIS brushes give the regulation profit, a full guarantee and confidence to the customer to purchase other goods from you.

ADDIS BRUSH WORKS
HERTFORD, ENGLAND.



Made in
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Hard ... Bristles
Medium ...
or Soft if required.

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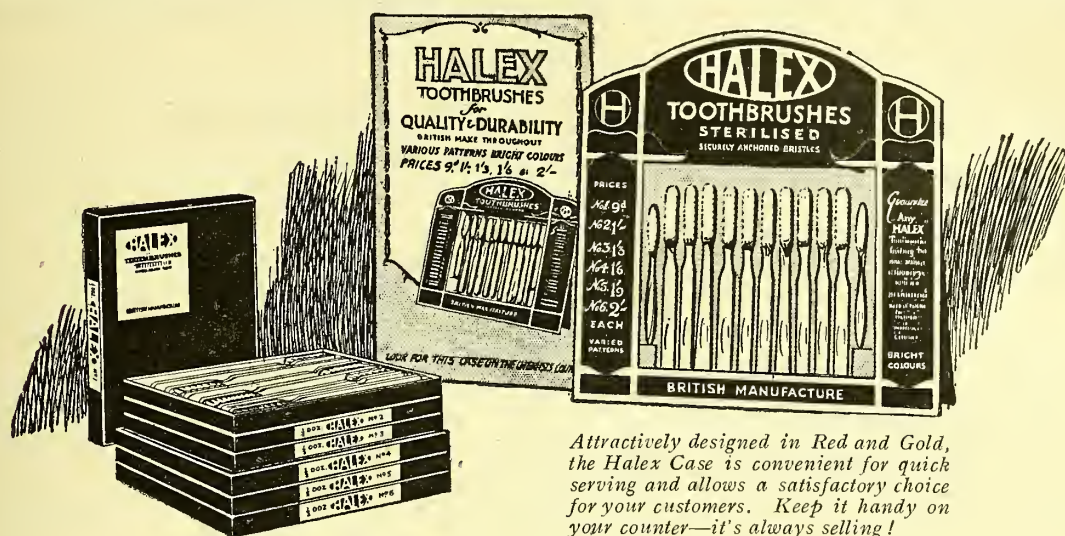
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Attractively designed in Red and Gold, the Halex Case is convenient for quick serving and allows a satisfactory choice for your customers. Keep it handy on your counter—it's always selling!

Time to replenish your stocks of Halex Tooth brushes!

ALREADY commenced is another big Halex advertising campaign. It is planned to reach not only people who regularly use tooth brushes, but also the thousands more who still don't use them often enough.

It will emphasise the value to health of proper teeth-cleaning as well as the value for money of Halex tooth brushes. Increased demand for tooth brushes and increased preference for the Halex brand will be the result.

Take this opportunity of replenishing your stocks of Halex brushes. If you need a new display case just mention the fact when ordering.

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We made up this Introductory Parcel so that you can prove for yourself, at a minimum outlay, that Halex are the most profitable Tooth brushes you can sell. Thousands of Chemists have availed themselves of this offer. It is still open to you.

The Parcel contains—

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The parcel costs you - 40/-
and the brushes sell at 66/-

★ Send for the Introductory Parcel to-day through your usual Wholesaler.

Halex Tooth brushes

(British Made)

THE BRITISH XYLONITE COMPANY LIMITED, HALE END, LONDON, E.4

ARMOUR AND COMPANY
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Manufacturers of—

DIGESTIVE FERMENTS.
ENDOCRINES.
HAEMOGLOBIN, etc., etc.
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LIGATURES, Sterile & Unsterile.

Specialities:—

Glycerine Extract Red Bone Marrow.
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FOR PERFECT DANCING

A Perfect Floor is essential

THIS IS PRODUCED BY

"BOVAL" FLOOR GLOSS

NO WAX, NO WORRY.

SIMPLY SPRINKLED ON THE FLOOR,
THE DANCERS DO THE REST.

It creates no dust and imparts a delightful
fragrance to the room.

*Packed in beautifully enamelled sprinkler
top containers.*

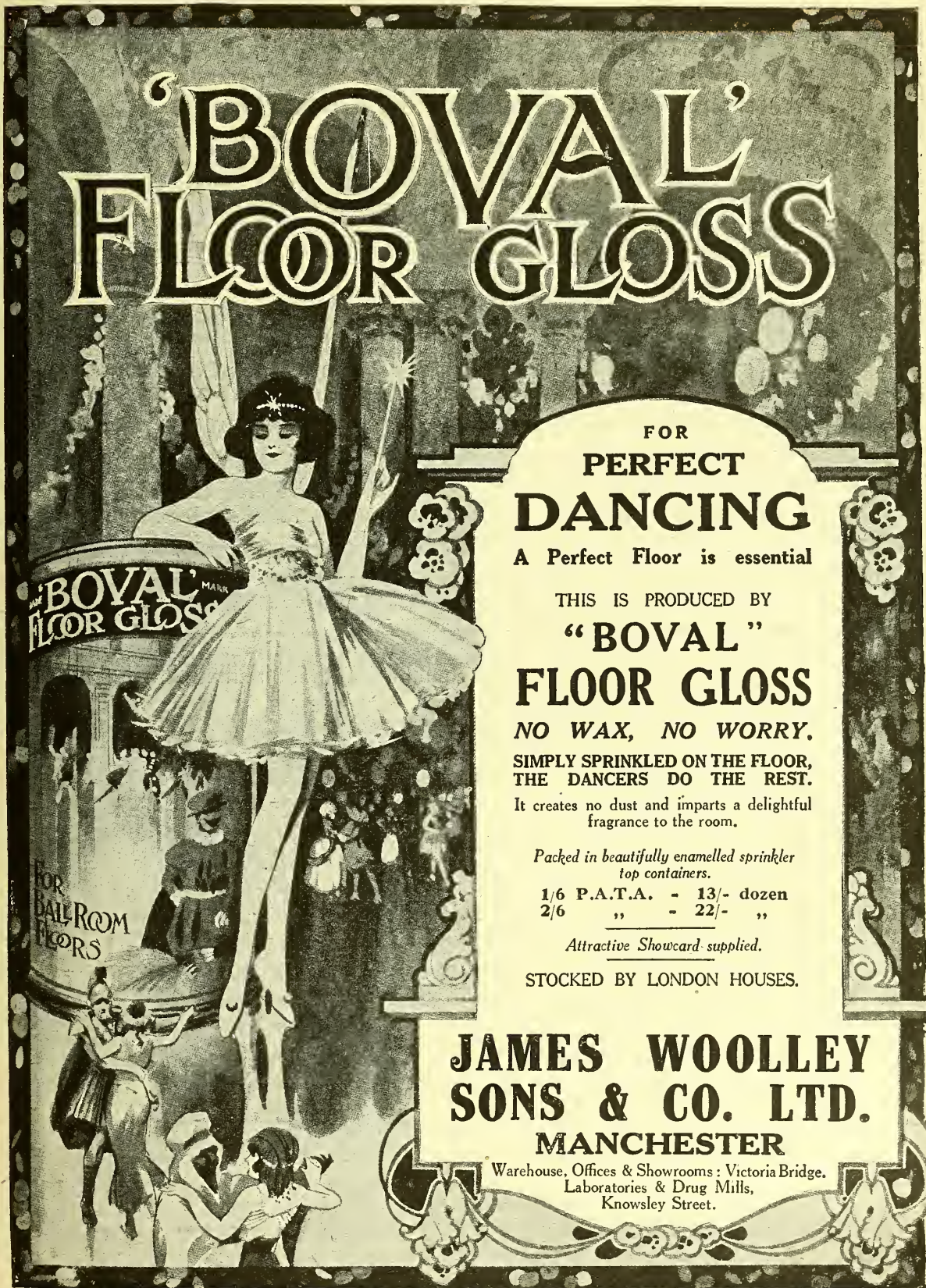
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Attractive Showcard supplied.

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is the Real Old-fashioned Air-Bleached

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In slabs about 10 lb. each, also 1-lb., 4-oz., 2-oz., & 1-oz. rounds.

Celebrated for excellence and purity for upwards of three-quarters of a century.

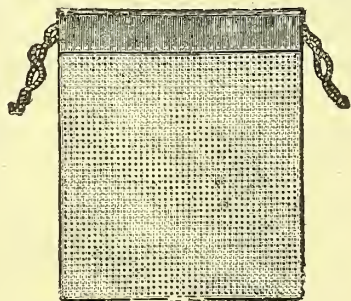
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ALSO WAXES & OILS OF EVERY KNOWN KIND & FOR EVERY PURPOSE.

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SEASONABLE SUNDRIES—SPONGE BAGS, &c.



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Maw's



Page

Display "Meritor" Toilet Brushes and Watch Results

The name "Meritor" means money to you. It is sending customers to your counter every day—it is practically your own copyright. Doubtless you have seen the first rate "Meritor" advertisements appearing in the leading newspapers and periodicals. These advertisements are telling millions of people of the excellent qualities of "Meritor" brushware generally and "Meritor" tooth brushes in particular. They strongly emphasize the fact that "Meritor" Toilet Brushes can only be obtained from pharmacists.

A display of "Meritor" Tooth Brushes in your window will reap a good reward for you. The well-designed display matter which is always associated with "Meritor" brushware will help you to make your window doubly attractive, and the guarantee that is given with every brush will ensure certain satisfaction to your customers.

When you are selling a tooth brush, sell a "Meritor." It is well worth your while to do so.

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Cent
London



Cables:
Eleven
London

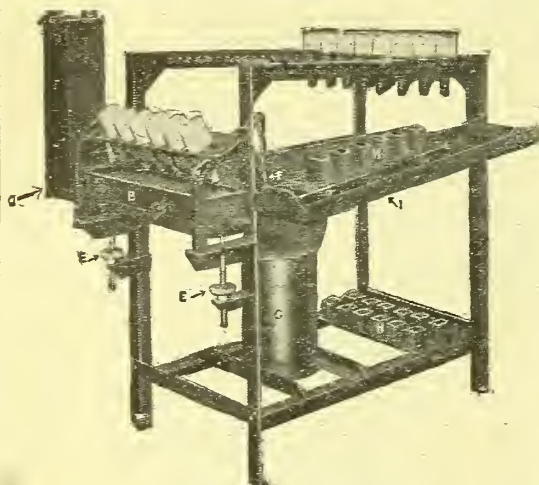
Code:
A.B.C.
4th & 5th
Edition



A WONDERFUL SUCCESS!

This is the opinion of a firm which have actually installed our new method.

There is no reason why your bottle capping troubles should not be solved in an equally satisfactory manner.



Prov. Patent No. 22718

The "ACELTA" Patent Capping Machine will solve your difficulties—gives speed, elegance and security—and no waste—and will cap all shapes and sizes of bottles equally well.

We offer special facilities to small progressive firms to install our machine.

The "ACELTA" Cap is now unrivalled for ease of application and beautiful finish. Write now for descriptive Folder.

"ACELTA" CAPPING CO. LTD.

185 PRINCESS STREET, MANCHESTER
ENGLAND
SOUTH AFRICA FRANCE CANADA



Where there's "Imperial Bee" on the counter, there are quick sales of thick, soft, creamy

"Imperial Bee" NEW ZEALAND HONEY

A BRITISH EMPIRE PRODUCT THROUGHOUT.

GUARANTEED PURE and WITHOUT PRESERVATIVES, contains the essential vitamins or health-makers. Mildly laxative, ALL nutriment and easily digested.

CASES per doz. carriage paid.

| | | | |
|-----------------------------|-----|-----|---------|
| 48 1's Glass Screw-top Jars | ... | ... | at 14/- |
| 48 1's " " | ... | ... | at 8/6 |
| 48 1's Monopots | ... | ... | at 12/6 |
| 48 1's " " | ... | ... | at 7/3 |

If you cannot obtain supplies through your Wholesaler, write to

A. J. MILLS & Co., Ltd., 14 Tooley St., S.E.1

A. & P. S.



Saint-Raphael

**Tonic, Restorative,
Digestive Wine.**

Known throughout the World, and prescribed in all cases of ANÆMIA, DEBILITY, and CONVALESCENCE, to Young Women, Children and the Aged.

DOSE: One wine-glass after the two principal meals.

Recommended by—
PROF. BOUCHARDAT, Professor of Hygiene, Paris Faculty of Medicine.
DR. MACNAUGHTON JONES, London, England.

"For more than thirty years St. Raphael Wine has been exclusively prescribed, with success, in the Paris hospitals as a pure tonic, by eminent physicians, such as Magendie, Roson Chomel, Velpeau, Requin, Monneret, Trouseau, Grisolle, Laennec, &c."—*Union Medicale*, May 8 and June 12, 1873.

"The 'Vin de St. Raphael' is often used for ladies nursing their own children; it is preferable to stout, which creates an unhealthy fat."—*The Lancet* London, England.

"St. Raphael Wine is most precious in all cases where it is necessary to give tone to the system, without effort or shock."—DR. C. DES BARRES.

Cie du VIN SAINT RAPHAEL, Valence, Drome, FRANCE

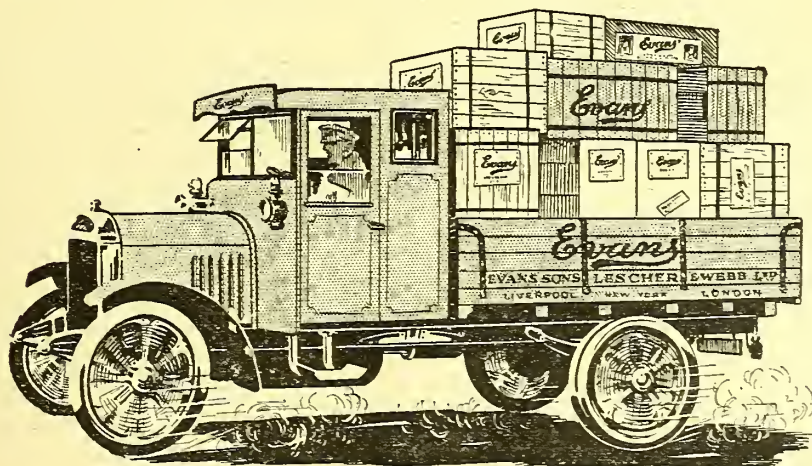
**To be obtained from all
Wholesale Druggists.**

EVANS'

SPRING & SUMMER SERVICE

This seasonable list of Spring and Summer Specialties—issued two weeks ago—is proving to be full of interest to buyers. It is the *Handy List of the Season*, illustrating and quoting just those goods that are on the "Flood Tide," including the latest specialty of the House—the new MONT-SERRAT Pulpy Lemon Squash—dressed in the very latest of fashions.

The booklet—well worthy of study—can be sent by return to anyone who has not already received a copy.





Trufood—the best trade proposition

Trufood customers are customers that you hold for two years. Humanised Trufood is receiving steadily increasing recognition as the nearest approach, in chemical and physical properties, to breast milk. It is a perfectly balanced food for infants until the ninth month from birth. Buyers of other milk foods usually leave the pharmacist for the dairyman once the bottle-feeding stage is passed. Humanised Trufood gives such splendid results, however, that mothers will readily accept your suggestion that Trufood Full Cream should be the dietary basis until long after weaning. Humanised Trufood is the best possible sales agent for Trufood Full Cream.

A comprehensive system of circularising among mothers supplements numerous other means of linking pharmacists with Trufood sales prospects. A special Sales Promotion Department will gladly co-operate with you in stimulating Trufood business.

Are you exhibiting a Trufood photo showcard? If not, please write for one.

Humanised Trufood is obtainable only from pharmacists, in 10-oz. tins at 2s 9d, and 20-oz. tins at 4s 9d; Trufood Full Cream in 10, 20, and 36-oz. tins, at 2s, 4s, and 7s. No other channel of supply is open to the public.

We are exhibiting at the Nations Food Exhibition, April 11th to May 2nd, Stand No. 152, Main Hall, and at the Chemist Exhibition, May 4th to 8th, Stand No. 71.

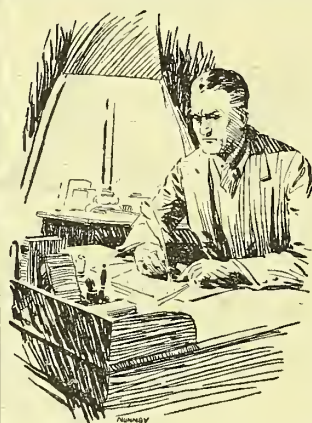
Scientific data of particular interest to members of the Pharmaceutical profession will be available.

TRUFOOD

TRUFOOD LIMITED,

THE CREAMERIES, WRENBURY, CHESHIRE

TF 125-130.



He isn't ill—but the strain of long hours of concentration often leaves him "run-down" and exhausted.

For the brain-worker, for all those who lead a strenuous life or work long hours, BOVO-LACTIN ESSENCE is the ideal food—it will pay you to recommend it, not merely because your profit is 33½%—38½% on 3 doz. orders—but because

your customers will recognise your up-to-date knowledge in having recommended a preparation that has done them so much good.

FOOD PRODUCTS LTD., 11 Queen Victoria St., E.C.4.

Wholesale Distributors:

Fassett & Johnson Ltd., 86 Clerkenwell Road, E.C.1.

MAJAX

The ideal milk sugar for babies. We are having direct orders from all parts of the country. Why not participate in this business?

For terms write to Proprietors

MAWSON & PROCTOR, LTD.

NEWCASTLE-ON-TYNE.

Dr. Allinson's Food Preparations

FOR ALL AGES AND CONDITIONS OF HEALTH AT FIRM AND PROTECTED PRICES.

Food for Babies, Prepared Barley, N. F. Cocoa, Biscuits, Wholemeal, &c.

See Trade Mark "T. R. Allinson" on all our goods—None Genuine Without.

SPECIAL NOTICE.

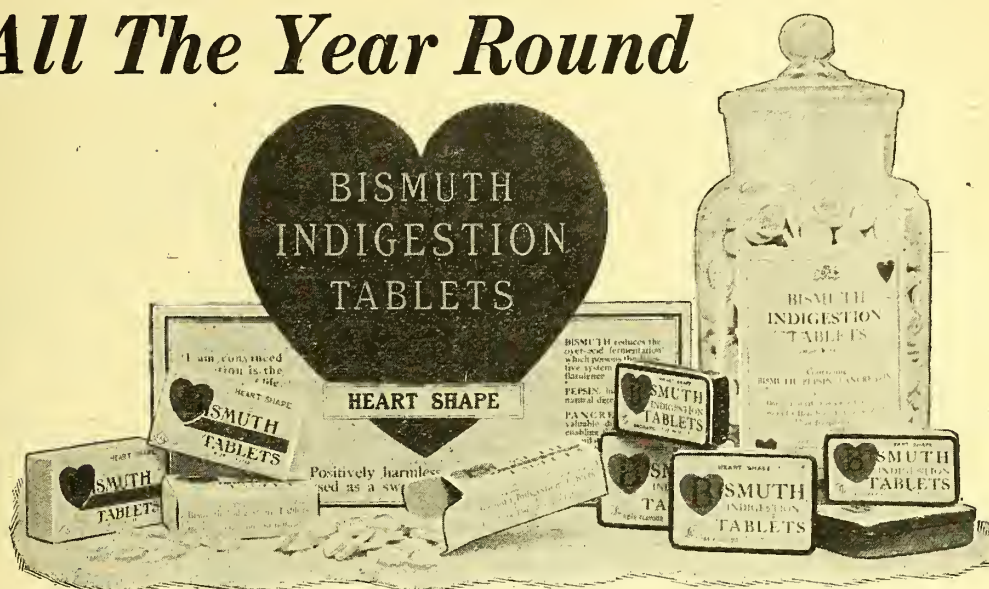
We issue a list of WHOLESALE HOUSES who keep above in stock, if for any reason you have difficulty in obtaining supplies, please send postcard direct to us, and a list will be sent to you by return.

NATURAL FOOD COMPANY, Ltd.,
Cambridge Road, Bethnal Green, LONDON, E.

All advertising matter—Booklets, Window Displays, Showcards, etc., free on application.

N.B.—Our goods are to be sold only at prices stated upon the Price List we issue to the trade, and we are pleased to exchange any article which may be out of condition.

All The Year Round



HEART SHAPE BISMUTH INDIGESTION TABLETS

The sale is constant from January to December. The formula (P.J.F. 106/18) is of effective medicinal value. The people buy them for Indigestion, Flatulence, Heartburn, etc., and consume them as an after-dinner sweet.

| | | | | | | |
|--------------|-----|-----|------|------|-----|----------|
| In bulk | 1 | 7 | 14 | 28 | 56 | 112 lbs. |
| per lb. | 2/- | 2/- | 1/11 | 1/10 | 1/9 | 1/8 |
| free cartons | 25 | 50 | 100 | 200 | 400 | |

With 7-lb. lots we supply free of charge a handsome white-glass Show Jar

We make them rose-flavoured or aromatic, and find an increasing demand from smokers, both for sweetening the breath and weaning the excessive smoker from the worship of My Lady Nicotine.

Packed in Tins.

| | | | |
|------------|-----|---------------------------------|----------------|
| Small size | - | (contains approximately 1 oz.) | |
| per doz. | 2/9 | - | per gross 30/- |
| Large size | - | (contains approximately 2 ozs.) | |
| per doz. | 4/3 | - | per gross 48/- |

DISPLAY MATTER WITH ALL ORDERS



SORE THROAT TABLETS

FORMULA—Menthol, Chlorate of Potash, Boric Acid, Rhatany, Tolu, Eucalyptus, Cinnamon, Wintergreen, etc.

In addition to the medicinal properties indicated by the formula, these tablets have a refreshing flavour which appeals to the palate.

Send a sample to your medical friends—they will readily prescribe.

| | | | |
|-----------------|-----|---|----------------|
| Per doz. (50's) | 7/- | - | per gross 81/- |
|-----------------|-----|---|----------------|

Name and address on three dozen.

AYRTON, SAUNDERS & CO. LTD. :: LIVERPOOL

JOHN W. ROYLE LTD.

are again exhibiting at the Chemists' Exhibition. They have been appointed special agents for Messrs. W. & J. Burrow's MALVERN WATERS, and when the warmer weather comes, bringing the usual huge demand for these Waters, John W. Royle Ltd. will not disappoint.

Wherever you are, your goods will reach you within 24 hours of ordering, and urgent town orders within *one hour*.

JOHN W. ROYLE Ltd.

19 Oxford St., W.1

Phone : Museum 1474

PURE ORANGE WINE

A. MILLAR & CO., LTD., DUBLIN

(VINUM AURANTII B.P.)

Prepared in strict accordance with the Formula of the British Pharmacopoeia.

(Wholesale only.)

Samples from Head Office, Thomas Street, DUBLIN, or London Office, 74 Great Tower Street, LONDON, E.C.3.



CASTLE BRAND CARMEL

Stands all tests and gives a brilliant solution.

W. HARVEY STEEL & COMPANY

CASTLE SACCHARINE WORKS, LIVERPOOL. Estab. 1878

PRUNOL PRUNE JELLY

A safe, simple aperient for children or adults. Consists of Prunes, Demerara Sugar, Senna and Ginger. Universally approved by the Medical Profession. Now being widely advertised. Be ready to meet the demand. Order stock from your Wholesaler. 25% Profit at M.R.P. Retail 1/10 P.A.T.A.

PRUNOL LIMITED

4 Pickering Place, London, S.W.1.

Important Note to Chemists without Licenses

It has been established by law that Registered Chemists may sell Wincarnis with Quinine without a License.



**Sells readily ALL
the time.**

COLEMAN & CO., Ltd., Wincarnis Works, Norwich

Prices to
the Public :

Large Size **5/-**

Small Size **3/-**



“SALTEX” is *the* Liver Salt for the Pharmacist because of its distinctly pharmaceutical quality. It is attractively packed, it is pleasant to take and efficient in action, and it is obtainable from Chemists only.

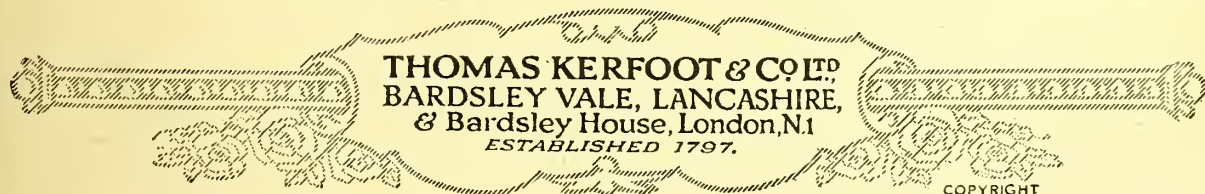
First introduced less than a year ago, “Saltex” Liver Salt has already won its spurs. Our claim that it was the best Liver Salt made has been amply justified. It will repay your interest because its quality ensures repeat sales—and these profitable repeats come to you—not to the grocer or the miscellaneous trader.



Showcards
free with each
order. Now is
the time for a
“Saltex” display.

Per **9^D** Tin
TRADE PRICES
6/6 per doz.
3 doz. 6/3 doz.
6 doz. 6/- doz.

Kerfoot Quality is Chemists' Quality



CHEMISTS' EXHIBITION

HOLLAND PARK HALL, W.

MONDAY, MAY 4th, to FRIDAY, MAY 8th.

We cordially invite all our friends to inspect our exhibits at

STALL No. 66

Instructions will be given to all our attendants to allow visitors to look quietly round our Stand, and on no account to cause annoyance by unduly worrying them into buying.

WE SHALL RELY FOR BUSINESS ON
THE APPEAL WHICH OUR PRODUCTS
MAKE TO PROSPECTIVE CUSTOMERS.

We shall be pleased to supply tickets on application to our London Office.

PARIS.
CANNES.

SPURWAY ET CIE LTD.

89 GREAT EASTERN STREET, LONDON, E.C.2.

LEIPZIG.

Established 1795.

LAUTIER FILS

Works : GRASSE (France) & BEYRU (Syria).

Essential Oils ——— Synthetics.
All Raw Materials for Perfumery.

| | |
|----------------------|---------------------|
| Absinth | Laurel |
| Almond, bitter, | Lavender |
| Angelica (S.A.P.) | Lemon |
| Basil | Mace |
| Bay | Melissa |
| Bergamot | Neroli big and Syn. |
| Bols de Rose femelle | Orange |
| Cajuput | Otto de Rose |
| Caraway | Patchouli |
| Cinnamon | Peppermint |
| Cloves | Rosemary |
| Copalba | Rue |
| Costus | Sandalwood |
| Cubeb | Spike Lavender |
| Fennel | Tansy |
| Geranium | Tarragon |
| Honey | Thyme |
| Hyssop | Vetivert |

Olive, Peach Kernel, Sweet Almond Oils
Floral Waters.

Wholesale and Export only.

LAUTIER FILS, Ltd., 4 Denman St., London Bdg., S.E. 1
Tel. Add.: "LAUTIER, PHONE, LONDON." Telephone: Hor 2819.

ESSENCES

HIGHEST CONCENTRATION.

Sole Agents for Gt. Britain and Colonies

FOR

FRIES & BRO. NEW YORK

The World-Renowned Makers of
FIRST QUALITY ESSENCES.

Stocks in London. PEACH APRICOT HONEY MAPLE &c. Ask for Quotations & Samples.

A. CONNELL & CO., Melba House,
WENLOCK ROAD, CITY ROAD, LONDON, N.1
Phone: Clerkenwell 7266. Tele.: "Nitrozone, Ald, London."

Spontaneous and unsolicited praise is always acceptable ! We have received a letter, which we are reproducing below, concerning our 1749 Mitcham Lavender Sachets, from a lady in British Columbia.

POTTER & MOORE'S

1749

MITCHAM LAVENDER SACHETS

conserve the fragrant, elusive odour of Mitcham
Lavender Flowers to a wonderful degree.



Dear Sirs,

Vancouver, B.C. Feb. 27th, 1925.

When last in London, I bought some of your Fragrant Old English Lavender Sachets....I am hoping this letter will reach you and you can send me some more.

I think it is the most fragrant Sachet I have ever used, and the most lasting.

I have forgotten the price but will enclose....and you can send me as much as the Order will purchase.

Hoping this letter will reach you,

I remain, Yours, etc., A.A.S.

PRICES ON APPLICATION.

POTTER & MOORE, The Lavender Distillery, Mitcham, Surrey.

Sole Proprietors :

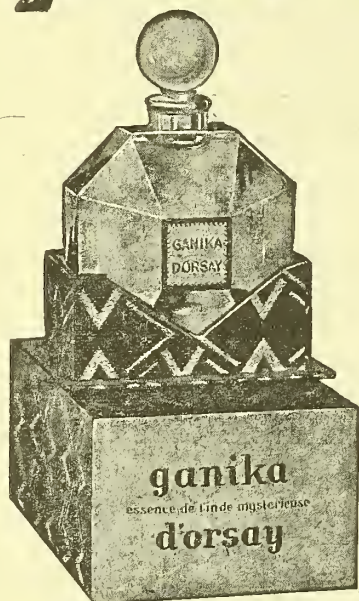
W. J. BUSH & CO. Ltd., Ash Grove, Hackney, London, E.8

Sole Wholesale Scottish Agents for Articles of Perfumery :

MUNRO, M'LAREN & SUTHERLAND - GLASGOW.

parfums d'orsay

PARIS.



No. 013 GANIKA D'ORSAY.
Retail - - 17/9 each.

EXTRAITS:

FLEUR DE FRANCE
CHEVALIER D'ORSAY
ROSE D'ORSAY
CHYPRE D'ORSAY
GANIKA D'ORSAY

SOLE AGENTS FOR GREAT BRITAIN:

S. NAMIAS' SONS, 54 George St., Baker St., W.1.
Telegrams: "CAMASUSTA, LONDON." Phone: Mayfair 3925.

IRELAND:

W. J. RANKIN & SON, 11 Waring St., Belfast.
Phone - - - - - Belfast 3211.

G. B. KENT & SONS, LTD.

Are known the World over as
the Largest Manufacturers of

BEST BRITISH BRUSHES

Please write for full Particulars to—
75 Farringdon Road, E.C.1.

HERE IS THE LINE you must surely have
been looking for in order to **increase your
profits** and meet your customers' ever-
increasing demand.

"GALJADO" SCURF LOTION for all SCALP and HAIR TROUBLES.

| | |
|-----------------------------|----------------------|
| Small size, 10/6 per dozen. | S.P. 1/6 per bottle. |
| Standard " 16/6 " | S.P. 2/6 " |
| Large " 33/- " | S.P. 4/6 " |

"GALJADO" TOILET PREPARATIONS are universally
renowned, and are obtainable of all Wholesalers or direct.
Current price lists sent free on application to

THE GALJADO PERFUMERY CO., Ltd.
93 Worship Street, LONDON, E.C.2.

English Peppermint Oil

SUPPLIES OF DILL OIL ALSO OBTAINABLE DIRECT FROM

Joseph Seymour,
Distillery & Herb Farm, Holbeach, Lincs.

FINEST QUALITY

CALIFORNIAN OIL ^{OF} SWEET ORANGE

PRODUCED BY

THE EXCHANGE ORANGE PRODUCTS CO.

SAN DIMAS
CALIFORNIA

*We have a consignment of this excellent Oil
now on the way. Packed in 400 lbs. Drums.*

IF YOU HAVE NOT ALREADY USED THIS OIL **TRY IT**
WE ARE SURE YOU WILL BE SATISFIED.

Smaller packages can be obtained from your dealer.

EUROPEAN DISTRIBUTORS:—

WHEELER & HUISKING LTD.

Telephone :

ROYAL { 2777
2778
2652

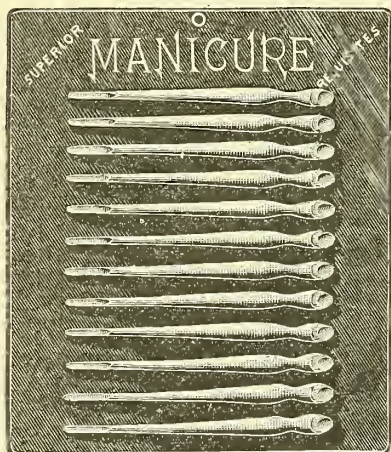
26 & 27 Great Tower Street
LONDON, E.C.3

Telegrams :

"ASAFETIDA
BILGATE
LONDON."

*There's an ever-increasing demand for these goods
which we offer at the following favourable prices.*

TO OUR CUSTOMERS THE CHEMISTS!



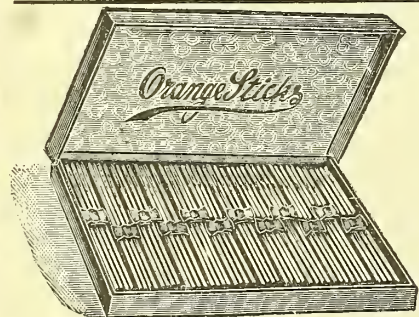
HOOF STICKS, India Rubber End

White Wood, super, 12 on card ... 6/- doz.
0862. Bone ... 5/-
405. Wood, red rubber .. 3/6 ..



EMERY BOARDS

One dozen bundles of 12 in each bundle.
Boxed, 2 3/4 in. long ... 6/- doz.
One dozen bundles of 12 in each bundle,
Boxed, 4 in. long, narrow ... 9/- doz.
One dozen bundles of 12 in each bundle,
Boxed, 4 1/4 in. long, tapered ... 10/- doz.



ORANGE STICKS

| | | |
|-----------------------------------|----------|--------------|
| No. 2P. Flat End and Pointed | ... 12/6 | Doz. bundles |
| No. 2F. Round End and Flat Points | ... 12/- | |
| No. 11. Yellow tint | ... 8/- | |
| No. 4. Tinted ends | ... 8/- | |
| No. 5. Plain Wood | ... 8/- | |

All above numbers put up 12 bundles in box, as illustrated.
No. 500. Decker's Special Orange Wood Sticks,
4 in., 12 in bundle, 6/6 per dozen bundles.

Osgee

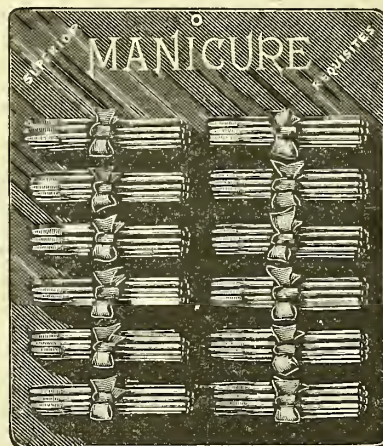
*For Everything
used in
MANICURE*

CASES

We hold a
Large Stock of
**CASES OF
MANICURE**

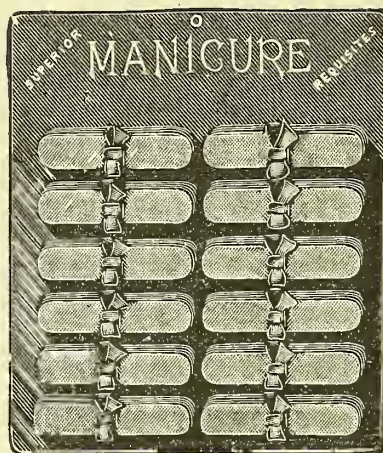
in
**EBONY
BONE
PEARL
SHELL
COLOURED
AND SILVER**

**IN FLAT
UPRIGHT
ROLL-UP
STANDS**
and
FOLDING CASES



ORANGE WOOD STICKS

8 in each bundle, 12 bundles on card, 3 in.
As illustrated ... 5/6 doz.
No. 301. 6 in bundle, assorted sizes, 12
bundles on card, 3/3 card.



EMERY BOARDS

12 bundles of 8 each, short ... 4/9 doz.
6 " 6 " long on card 2/- per card
No. 302. 12 bundles of 6 each,
assorted sizes, on card 3/6 per card

DECKER'S EMERY BOARDS

No. 2430. Extra Fine, Short, Flexible 3/9 doz.
No. 2422. " " Long, Tapered 4/9 "
12 in a carton.

OSBORNE, GARRETT & CO. LTD., 51-54 Frith St., Soho, London, W.1

FRANCIS DRAKE & CO.

EDEN STREET, HAMPSTEAD RD., N.W.1

Wholesale Agent for Ireland: R. CAVAN, 1 North Street, BELFAST



No. 1.
**JAZZ
PERFUME**

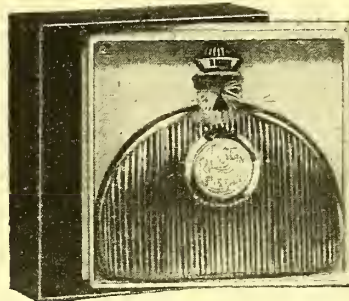
*A beautiful design,
vivid & startling in
colour, with a bottle
of unique pattern.*

*It contains 1 oz. of
"Nicolai Jazz Perfume."
50/- doz.*



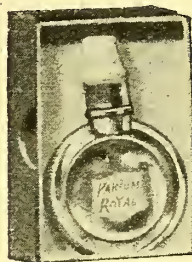
No. 64.
MADELON

*A small pocket edition of the famous "Madelon."
34/- doz.*



No. 62.
TRISTAN

*A neat little case with small bottle.
33/- doz.*



No. 60.

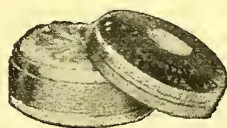
**PARFUM
ROYAL**

*A cheap line of Good Quality.
6/9 doz.*



No. 65.
ELISSA

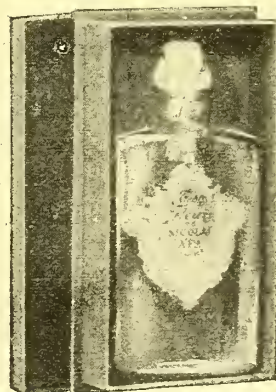
*An entirely new idea. Pretty
bottle and exquisite perfume.
35/- doz.*



PUFF BOX

*Silver Gilt, with Puff & Mirror,
compact Powder.
12/- doz.*

An exceptional bargain at the price.



TROIS FLEURS

*A new size in this exquisite line.
Bottle contains 1/2 oz. perfume.
15/- doz.*

DEARBORN (1923) LTD.

37 Gray's Inn Road, London, W.C.1

Toilet Specialties.

| | Price per doz. to Retailer | Selling Price P.A.T.A. |
|---|----------------------------------|------------------------------|
| PILENTA SOAP ... A complexion soap. | 10/- | 1/- |
| PROLACTUM ... For the lips. | 10/- | 1/- |
| PARSIDIUM JELLY ... For wrinkles. | 10/- | 1/- |
| ALLACITE OF ORANGE BLOSSOM ... A dressing cream. | 22/6 | 2/6 |
| BORANIUM ... A hair tonic. | 22/6 | 2/6 |
| CLEMINITE ... For a face lotion. | 22/6 | 2/6 |
| COLLIANDUM ... For a face tint. | 22/6 | 2/6 |
| PERGOL ... A deodorant. | 22/6 | 2/6 |
| TEKKO PASTE ... Camphor cream. | 22/6 | 2/6 |
| STALLAX ... For a shampoo. | 22/6 | 2/6 |
| JETTALINE ... For clearing the skin. | 31/6 | 3/6 |
| PHEMINOL ... A depilatory. | 36/- | 4/- |
| MENNALINE ... For the eyelashes. | 36/- | 4/- |
| MERCOLIZED WAX ... A face cream. | 18/- 31/6 | 2/- 3/6 |
| STYMOL ... For oily complexions and blackheads. | 36/- | 4/- |
| SILMERINE ... Hair-curling fluid. | 22/6 | 2/6 |
| BARSYDE ... Dandruff eradicator. | 22/6 | 2/6 |
| TAMMALITE ... For grey and faded hair. | 22/6 | 2/6 |
| LIQUID PERGOL ... To check excessive perspiration locally. | 31/6 | 3/6 |
| BICROLIUM ... For whitening the hands. | 22/6 | 2/6 |
| COCONOIDS ... For figure development. | 31/6 | 3/6 |

The Products of

Messrs. PARKER, BELMONT & CO.

| | | |
|--|--------------|------------|
| CLYNOL BERRIES ... For obesity. | 36/- 58/6 | 4/- 6/6 |
| SOFT PALERIUM ... For wrinkles. | 45/- | 5/- |
| LIQUID NAIL POLISH ... Brilliant and lasting. | 10/- | 1/- |

Stocked by ALL Wholesale Houses.

COLONIAL DEPÔTS AND AGENCIES.

Australia: ALL WHOLESALESAERS, & DEARBORN (Australia), Ltd., Grace House, Clarence Street, Sydney.
South Africa: LENNON, Ltd., Cape Town, etc.
SIVE BROS. & KARNOVSKY, Johannesburg.
India: FRAMJEE & SON, Bombay.
A. L. CHOUDRY, Calcutta.
New Zealand: SHARLAND & CO., Auckland and Wellington.
South America: DEARBORN (South America) Ltd., Calle Pavou 2100, Buenos Aires.
Straits Settlements & Federated Malay States: MEDICAL HALL, Ltd., Singapore.

A Sampling Scheme that is bringing Results

The Proprietors of NUCTONE have given the public a unique opportunity of making a home test of NUCTONE for Grey Hair. Hundreds of enthusiastic letters have been received from all over the country written by people who are astounded at the simplicity and success of this safe and certain treatment. These people are now regular customers for NUCTONE. Here are a few extracts from recent letters:—

"Bexhill-on-Sea, Feb. 11.
"Your preparation is splendid.—I. B. P."
"Blackpool, February.
"Nuctone is quite satisfactory.—L. M. T."
"Birmingham, Jan. 8.
"Nuctone is improving my hair.—Mrs. F. N."
"Edinburgh, Feb. 9.
"Have used two bottles, quite sufficient.
Friends say looking 20 years younger.—E. T."
"Glasgow, Feb. 9.
"Nuctone exactly suits my hair.—I. W."
"Romiley, Feb. 7.
"Nuctone wonderfully effective.—Mrs. J. H."
"Glasgow, Feb. 7.
"Nuctone excellent and safe to use.—V. E. W."
"Southampton, Feb. 8.
"Excellent for the hair.—G. P."
"Grange Town, Feb. 7.
"Quite a success.—G. N."
"Anfield, Feb. 6.
"Nuctone is really wonderful.—Mrs. F. F."
"Droghda, Jan. 27.
"All that you maintain is absolutely correct.
—T. C."
"Wigan, Feb. 6.
"My hair has regained its natural colour and lustre.—F. P."
"Barnsbury, Jan. 28.
"Effects lasting and natural. Deserves all claimed for it.—Dr. D."
"Edgbastou, Jan. 27.
"Pleased with result. Hair softer and healthier.—E. B."
"Richmond, Feb. 4.
"All that you claim and more too.—C. M."
Get your share of the business that this scheme is stimulating. Order now

Nuctone for GREY HAIR

In Four Grades:

NUCTONE for dark and medium hair.

3/9 size 32/- doz., 6/6 size 52/- per doz.

NUCTONE ECLAIRE for fair & auburn hair.

3/9 size 32/- doz., 6/6 size 52/- per doz.

NUCTONE CONCENTRE for Gentlemen.

6/6 size 52/- doz., 12/6 size 84/- per doz.

NUCTONE ECLAIRE CONCENTRE for Ladies and Gentlemen with fair hair who want a quicker result.

6/6 size 52/- doz., 12/6 size 84/- per doz.

Obtainable from your usual wholesalers or direct from—

QUELCH & GAMBLE, Ltd.
211/215 Blackfriars Rd., London, S.E.1

Manufactured by
STEWART, GOODALL & DUNLOP, LIMITED,
4 Dering Street - - - London, W.1

These
Bath Salts
are the
Best
Quality
obtainable
and are
Artistically
Labelled
and
Packed.

Customer's
Name
printed
free on
3 dozen
assorted
sizes

TOOGOOD'S PERFUMED BATH SALTS

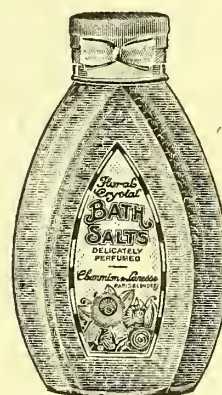
ASSORTED PERFUMES



2430

No. 2430

| | |
|-----------|-----------|
| 8 oz. ... | 11/- doz. |
| 10 „ ... | 13/6 „ |
| 12 „ ... | 16/6 „ |
| 16 „ ... | 20/- „ |
| 20 „ ... | 24/- „ |
| 32 „ ... | 36/- „ |
| 40 „ ... | 47/6 „ |
| 60 „ ... | 66/- „ |



4116

No. 4116

| |
|------------|
| 6 oz. |
| 9/6 dozen |
| 12 oz. |
| 16/6 dozen |
| 24 oz. |
| 27/6 dozen |



3756

No. 3756

In Stoppered Bottles

| | |
|------------|-----------|
| 20 oz. ... | 30/- doz. |
| 30 „ ... | 40/- „ |
| 40 „ ... | 50/- „ |
| 4½ lb. ... | 96/- „ |
| 8 „ ... | 132/- „ |

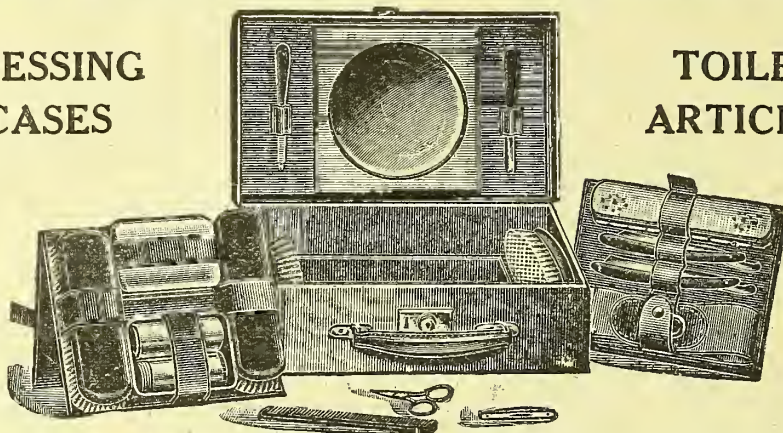
SUBJECT TO USUAL TERMS.

WILLIAM TOOGOOD LTD
77 SOUTHWARK ST LONDON SE 1

FITTED & UNFITTED TRAVELLING CASES

DRESSING
CASES

TOILET
ARTICLES



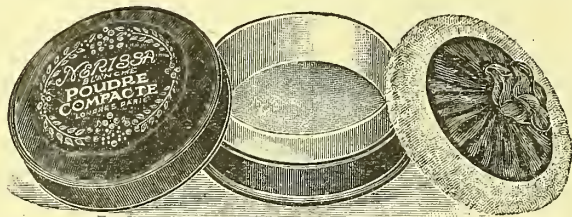
ILLUSTRATED CATALOGUE ON RECEIPT OF TRADE CARD

ADOLPH SCOTT LTD., 24, 25 & 26 **BIRMINGHAM**
Gt. Hampton St.,

TELEPHONE: NORTHERN 2102

TELEGRAMS: "ADOLPH B'HAM."

Poudre Compacte



Sole
Manufacturers:

SOLPORT BROTHERS, LTD, 184/190, Goswell Road, E.C.1.

The best range of Solid Powders on the market.

All complete with Puff, in assorted perfect tints. In attractive Show Boxes of 1 dozen.

- | | | |
|--------|--|----------|
| F100. | "Thé Dansant," Nickel Plated Box | 6/- doz. |
| F101. | "Thé Dansant," " " " " with diminishing mirror | 7/6 " |
| F102. | "Secret Charm," Embossed Aluminium Box, with diminishing mirror | 5/- " |
| F103. | "Golden Dawn," Imitation Gold Box, with diminishing mirror | 7/6 " |
| F104. | "Damask Rose," Imitation Gold Box, decorated in colours, with diminishing mirror | 7/6 " |
| F1003. | "Nerissa," Attractive Card Boxes as illustrated, in handsome display outer | 5/- " |

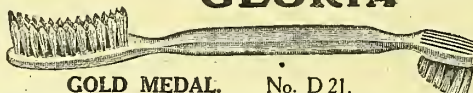
Obtainable through all Wholesale Houses.

Perfect Powder. Freedom from breakage. Daintily presented. An assortment that will meet the taste of every buyer and bring repeat orders.

**DOUBLE
BRUSH**

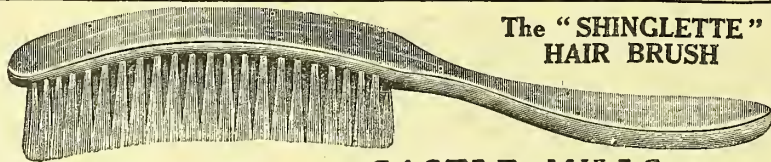
For cleaning
both sides of
the teeth.

BIDWELLS'
"GLORIA"



GOLD MEDAL No. D 21.

PRICE
25/-
per doz.



HIGH CLASS

The "SHINGLETTE"
HAIR BRUSH

PRICES:

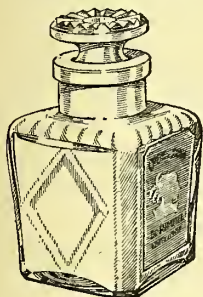
| | Per doz. | Retail |
|----------------------------|----------|--------|
| Satin Wood, Grey Bristle | 48/- | 6/6 |
| Satin Wood, White Bristle | 60/- | 9/- |
| Solid Ebony, White Bristle | 72/- | 10/- |

CASTLE MILLS

AXMINSTER

How is your stock of Rimmel's Crème Marimon?

WE ask you this question for the reason that we are advertising Crème Marimon during April, May and June very extensively in DAILY MIRROR, VOGUE, EVE, BYSTANDER, TATLER as hereunder, and are hoping you will share in the demand which is sure to be raised for so attractive an article. We unhesitatingly say that this is no ordinary cream. It is what has been sought for for years—viz., a cream which whitens the skin **permanently** until washed off.



Will you help us to help you? You can do this by stocking some of the line. Each order executed is accompanied by

a neat little bracket for showing the bottle. The cost is 60/- per dozen, less usual discount. We have special "display" terms if you will kindly write for them.



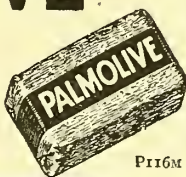
Eugène Rimmel
Laboratories Ltd
1a DARNLEY ROAD, LONDON, E.C.9
and at PARIS

— with no waste of time

People, in great numbers, ask for Palmolive by name. And the soap is ready wrapped—so you hand out the goods and ring the cash register without the expensive, time-wasting conversation which it takes to shift slow-moving brands.

PALMOLIVE SOAP

The Palmolive Co.
(of England) Limited
21-23, Eagle Street,
High Holborn, W.C.1



PR16M

Please get your supplies of
AMAMI
Shampoos from
P. A. T. A.
WHOLESALE
They allow just the same
Bonus on a six dozen
Shampoo Parcel

10%

Make a window or counter show—the rapidity of sale will astonish you

for showcards apply direct to:—
AMAMI 4/10 Chenies St. London W.C.1.



Spring flowers from beauty's hand

Beauty's most precious possession is the charming softness of a flawless skin. But delicate complexions demand infinite care, and the choice of soap must not be left to chance.

Pure, fragrant as spring flowers, Vinolia Soap ensures loveliness. A good complexion needs Vinolia, for it is a delicate, gentle soap, never roughening or drying the skin, keeping the pores free and giving the firm feeling which indicates that the sagging muscles are responding to its toning action. A poor complexion needs Vinolia Soap. It works marvels with sallowness and greyness. It makes the cheeks to glow with a new youth, and prevents the lines and bagginess which are the sure signs of an aging skin.

When the skin burns or feels any other of the ill-effects of exposure, try the solace of a gentle massage with Vinolia Soap in warm water, drying by patting rather than rubbing. It cannot be too often repeated that all the daytime care in the world will avail the complexion little if at night it is not perfectly cleared by washing in warm water and Vinolia Soap. The hands and arms should be similarly treated; they will reward this attention by a soft, smooth whiteness.

When you travel never risk being without Vinolia. Take a supply with you and be sure that your complexion will always be at its best. The most beautiful women in the world trust their good looks to Vinolia. Vinolia is the friend of beauty.



6^d
PER TABLET

3-tablet box 1/6
Bath tablet 10d

Vinolia

PREMIER SOAP
First for Fragrance - Premier for Purity

Ask your chemist for the handsome Vinolia combination box of Perfume, Soaps, Shampoo, Petals, Talcum Powder, and Complexion Powder. Price 1/-, or, post free, from Vinolia, Dept. Bebington, Cheshire.

Big^o SPRING ADVERTISING

During April and May, Vinolia Spring advertising will reach 12 million potential purchasers at least twice, and in some cases four times.

Two gross Vinolia Premier Soap, toilet size, 20.174, selling for £7 4s, can be purchased for £5 0s 11d, at a profit of £2 3s 1d, or 43% on outlay—highly satisfactory to the retailer on a well-advertised, quick-selling soap.

There is even more profit if you take advantage of the current special offer.

Vinolia

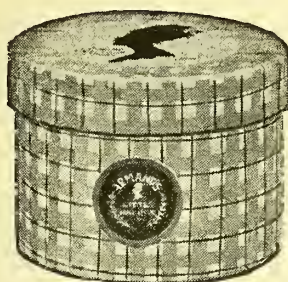
PREMIER SOAP
First for Fragrance

Write for special terms to
VINOLIA CO. LTD.
BLACKFRIARS, LONDON
E.C.4

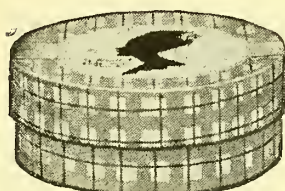
**FULL PAGE
TRIPLE COL.
ADVTs.**



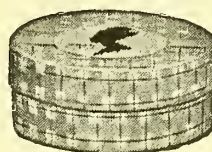
ARMAND



4/- size.



2/- size.



1/- size.

COLD CREAM Complexion Powder

ARE YOU IN TUNE?

Nature's awakening invariably brings awakened interest in the Out-of-doors—hence attention to the Complexion and its care.

Featuring Armand at this Season means pleasing an ever-widening circle of friends and making 6d. profit on every shilling taken.

*Florian & Armand Ltd.,
Queensway, Ponders End,
Middlesex*

*9/6 Profit
in every £1 you sell
of Armand Goods*



Profits - Plus - Prestige from Sorbo Sponges

"SORBO" has built up an Empire-wide reputation for Rubber Sponges of the very highest class.

By displaying these "Quality" goods prominently in their windows, Retail Chemists not only make additional sales, but they also attract a highly desirable class of new customer.

Some other quick-selling Sorbo Sponge lines:

Floating Bath Toys,
Bath Mats, Bath
Gloves, Bath Straps,
Insoles, Heel Elevators,
Massage Pads.

Write for Particulars

Sorbo is the All-British Sponge, the most absorbent sponge, the most durable sponge—the sponge your best customers ask for. Keep a good assortment always in stock.

Sorbo Sponge

THE MOST ABSORBENT RUBBER SPONGE

SIX SIZES.—Retail prices from 1/- to 7/6 each.
Chemists' profit, 33 $\frac{1}{3}$ % on selling price.

From your Wholesaler or write direct for Trade Catalogue.

Immediate Deliveries Guaranteed.

SORBO RUBBER-SPONGE PRODUCTS LTD.

Sorbo Works, Woking, Surrey.

Telegrams: "SORBO, WOKING."

Telephone: WOKING 666.

A Beauty Aid for Women
which does not compete with
any existing line you stock.

Artifex

soft all-rubber Curlers are particularly suitable for

BOBBED HAIR

because they curl the extreme ends of the hair.

Attractive show cards, counter display boxes and other sales matter with every order.

Artifex Curlers are being stocked by a rapidly increasing number of chemists. For your share of the business get particulars of this quick-selling, well-advertised line from your wholesaler, or, if you prefer, write in first instance to

"ARTIFEX" DEPARTMENT,

The MERKHAM TRADING CO. LTD.

Bush House ∴ Aldwych ∴ W.C.2



SHADEINE

For COLOURING GREY HAIR

This popular article is largely advertised and stocked by all Wholesale Houses.
Trial size 6d. per doz. . . . 8/-
1/4 size, per doz. . . . 12/-
2/6 size, per doz. . . . 24/-
3/9 size, per doz. . . . 36/-

The SHADEINE CO., 53 Westbourne Grove, London, W.2.

THE PLU-VEE NAIL BRUSH

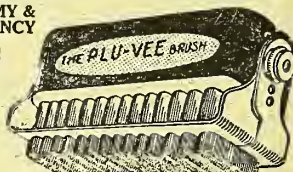
This Brush has met with a remarkable reception. Its practical advantages are instantly recognised, and you will find every sale of the Plu-vee begets another. Backed by advertisements in the daily and weekly press and nicely cartoned, it has an appeal to both sexes and all classes.

Its Points are:—ECONOMY & CONTINUED EFFICIENCY

SELLS at 2/6 each retail
Refills 1/- each

TRADE 21/- per dozen
Refills 8/6 per dozen
Carriage paid 1 dozen
and over

Wholesalers and Exporters
please write for terms.



The Nail Brush with Five Lives

The PAGE-COYNE CO. 30 Campo Lane, Sheffield

The Evan Williams

ALWAYS IN GREAT DEMAND.
PRICE LIST ON APPLICATION.

The EVAN-WILLIAMS Co., Ltd., 14/15 Union St., W.1.

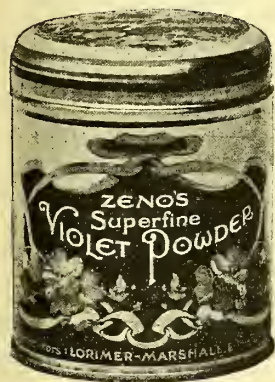
SHAMPOO.

LORIMER-MARSHALL

for

PACKED GOODS

SPECIAL VALUE



VIOLET POWDER ZENO'S SUPERFINE

A delicately perfumed prepared Starch Powder in strikingly handsome decorated tins; two sizes available.

2/9 doz., 33/- per gross.
4/9 " 54/- " "

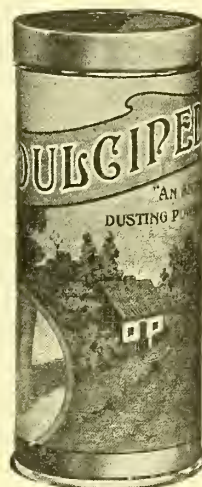
FOOT POWDER (DULCIPEDE)

An effectual remedy for Damp or Perspiring Feet.

In handsome enamelled tins with dredger tops.

2/3 per dozen.

24/- per gross.



SAMPLE TIN GLADLY UPON REQUEST

LORIMER-MARSHALL, Ltd., 12 Tower Hill, LONDON, E.C.3

Peldo
(Patent applied for)

THE
INVISIBLE
GLOVE

IF YOU SHOW 'PELDO' YOU WILL SELL IT!

'PELDO' IS ORIGINAL.

It is not a Substitution for Anything.

Obtainable from all the Patent Houses @ **13/6** per dozen.

WINDOW DISPLAY MATERIAL FREE ON APPLICATION.

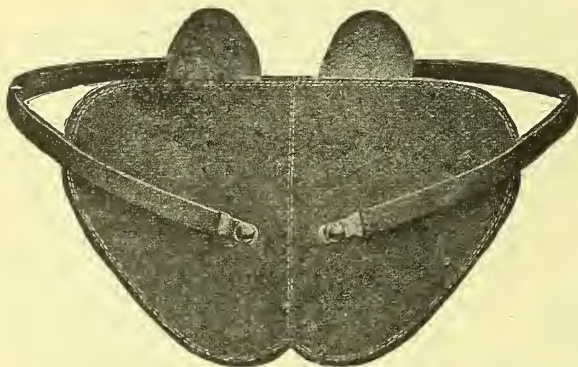
SOLE PROPRIETORS AND MANUFACTURERS:

C. R. HARKER, STAGG & MORGAN, LTD.

Devon Wharf and Bell Wharf,

EMMOTT STREET, MILE END, LONDON, E.1.

THE KINGSTON ABDOMINAL SUPPORTER



For General Weakness of the Abdominal Section
and an Efficient Support for the Lower Abdomen,
this appliance is invaluable.

In three qualities:
Basil and Chamois. Calf and Persian.
Calf and Lambskin.

R. H. HEWARD Co., Surgical Appliance Manufacturers, TWICKENHAM

CRÊPE VELPEAU BANDAGES AND ABDOMINAL BINDERS

In Original French Carts.



The Most Perfect and Durable Crêpe
Bandages that have ever been produced.
In two qualities only.

Demand CRÊPE VELPEAU.

THE
Lullaby
(Regd.)

FEEDING BOTTLE TEAT

(PATENT)

"VITAL" PROCESS HEAT-CURED RUBBER.

PRICE 4^d. EACH.

WITH LARGE DISCOUNT.

THE LULLABY
TEAT IS THE
STRONGEST TEAT
MADE.

IT WILL STAND
REPEATED STERI-
LISATION.

BABIES LOVE IT,
FOR IT WON'T
PULL OFF.



PRICE 4^d. EACH.

WITH LARGE DISCOUNT.

NEW DESIGN
WITH THICKENED
BALL TOP AND
EXTRA STRONG
GRIP.

PACKED IN DUST-
PROOF WRAPPER
IN ATTRACTIVE
COLOUR SHOW
BOX.

HAVE YOU HAD YOUR FREE SAMPLE?
WRITE FOR ONE and TEST ITS STRENGTH.

RELIANCE
COMPANY



RUBBER
LIMITED

212-213 UPPER THAMES STREET, LONDON, E.C.4

"GEISHA"



OBTAINABLE FROM ALL WHOLESALE FACTORS.

H. C. STERN

12 Farringdon Avenue, LONDON, E.C.4

Telephone: Holborn 3140. Telegrams: Glastos, Lud, London

NORVIC CRÊPE BINDERS

Hygienic, washable,
rubberless, and giv-
ing natural support.

Made in 6, 8 & 11 in.
widths. Delightfully
comfortable.

Beautifully elastic,
stretching to double
their length, Norvic
Crêpe Binders are
invaluable in ma-
ternity and all cases
where elasticity, sup-
port and adaptability
are required.

Vic tonic face-
cloths preserve
skin beauty and
do away with
wrinkles. Never
get "slimy."
They keep their
virtue and are
indispensable.



**GROUT
& Co., Limited.**
Stocked by all

**GREAT
YARMOUTH**
leading Wholesalers



PERKEN, SON & CO., LTD.

Established 1852.

Contractors to H.M.
Government.

THE
"MATER"
CLINICAL
is on the
P.A.T.A.
LIST.

ALL
TYPES
OF
CLINICAL
AND OTHER
THERMOMETERS

Price List on Application.

94 HATTON GARDEN,
LONDON, E.C.1.

Telephone: 724 Holborn.

Telegrams: "Optimus, Smith, London."



ANYTHING IN THE SUNDRIES LINE RENE HEYMANS LTD.

including ENEMAS, WHIRLING SPRAYS, SOOTHER FITTINGS, DOUCHE
FITTINGS, POWDER and VANITY PUFFS, BRUSHES, COMBS, POWDER PUFF
:: :: :: MANUFACTURING ACCESSORIES, Etc., Etc. :: :: ::

Our Paris House is always on the look-out for Novelties suitable for
manufacturing purposes, and we shall be glad to obtain articles for clients.

9, 10 DOMINGO STREET, LONDON, E.C.1

SURGICAL DRESSINGS

ABSORBENT, PLAIN and UNBLEACHED
COTTON WOOLS, BANDAGES, GAUZE

Wholesale and Export only.

GEORGE HAYNES & CO. - STOCKPORT, Eng.

Telephone: 2112 Stockport.

Telegrams: "Haynes."

Code: A B C, 5th Edition.

H. GORDON (LONDON) LTD.

8 CITY ROAD, FINSBURY SQUARE, E.C.1

Hygienic
Packing.

Contents
fit for
Immediate
Use.



No. 7193

Containing double-ended Bottle, Brush, transparent ribbed "Gordonia" Teat and Helmet-shape Valve. Packed in attractive Carton, design as above, & lined with corrugated cardboard

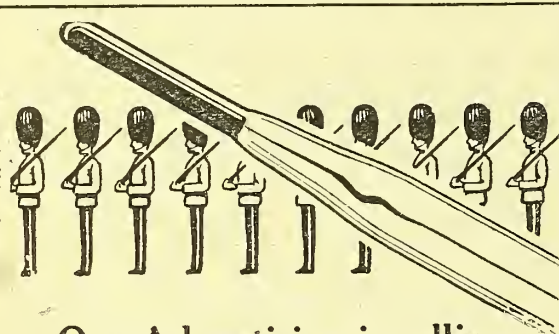
Apply for Samples and Prices of BATHING CAPS, PADDLERS, RUBBER APRONS, BABY PANTS, &c.
We have a good assortment of Popular Lines for Summer Trade at lowest Wholesale prices.

DRUGGIST'S SUNDRIES & SURGICAL RUBBER GOODS

WRITE FOR CATALOGUE.

Telephone: Clerkenwell 1714 & 1715.

Telegrams: "Gordonotus," London.



Our Advertising is selling
the new "Clinical"—
"The Sentinel"
to your Customers!

DON'T MISS SALES
through not having supplies, but
send at once for full details to

Sole Manufacturers:

G. H. ZEAL, Ltd. 77 ST. JOHN STREET,
CLERKENWELL, E.C.1.

Telephone: CLERKENWELL 5202.
Telegrams: "Zealoni, Smith, London."

Dr. Scholl's
**Foot Comfort
Service**
for Men and Women
SPECIALIST FOR ALL FOOT AFFECTIONS

Will enable you to increase
your profits and turnover.
"Scholl" goods are anatomi-
cally correct, made from
only specially selected materi-
als, and endorsed by the
Medical profession through-
out the world. Link up with
Scholl National Advertising.

Write to-day for full particulars

The Scholl Mfg. Co. Ltd.



Dr. SCHOLL'S ZINO PADS

remove pressure from corns, callouses,
bunions and any local skin abrasion, and
prevent friction. Simple to apply contain
no dangerous medication and require no
strapping—will not come off even when
bathing. Retail Price per box 1/3.

Put one on—the pain is gone.

1-4 GILTSPUR ST., E.C.1

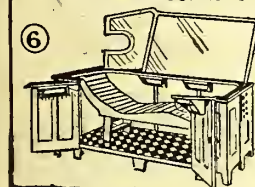
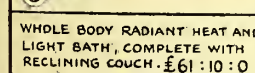
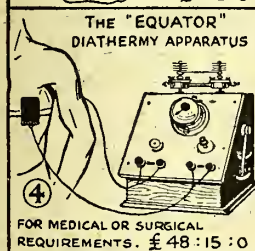
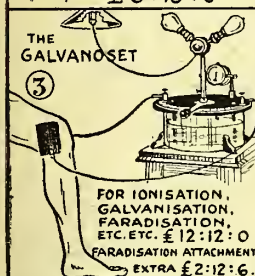
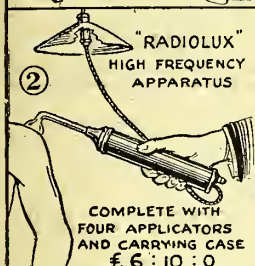
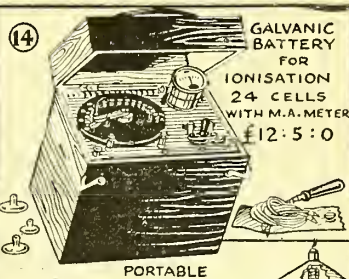
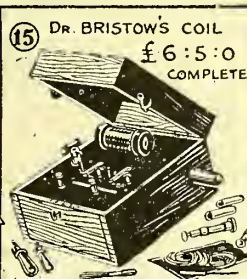
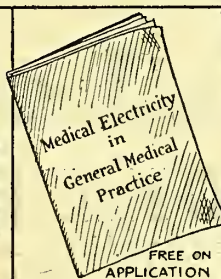
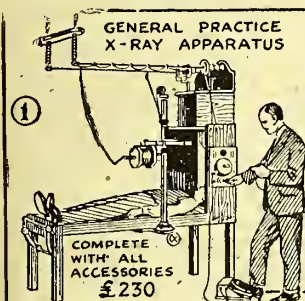
NURSE HARVEY'S MIXTURE

A safe, simple, and reliable remedy for Children's
Ailments is advertised so extensively in the daily
and weekly Press as to bring mothers to the
retailer without effort on his part.

The selling has been done before the mother
reaches the chemist, and, having supplied her, it is
only common sense to claim she will buy other
family necessities from him. Moreover, the con-
tinuous demand for it produces a quick turnover.

For Direct Terms apply to—

OSCAR SCRUTON & CO., YORK



Electro Medical Apparatus

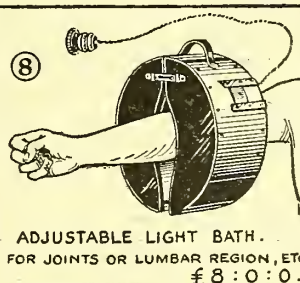
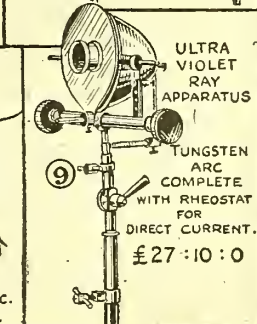
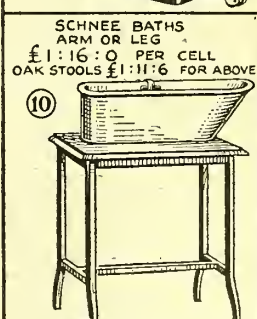
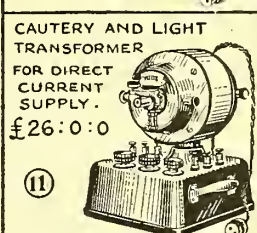
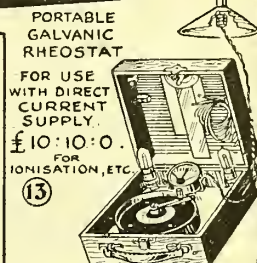
Enquiries, both from Doctors and private individuals, are increasing. The Chemist is the appropriate person to handle the business. Do not let it go to a rival.

WHATEVER YOU ARE ASKED FOR WRITE TO US. WE CAN GIVE YOU HIGHEST GRADE WORKMANSHIP AT COMPETITIVE FIGURES.

X-Ray Apparatus.
Radiant Heat & Light Apparatus.
Galvanic Batteries, etc.

MEDICAL SUPPLY ASSOCN. LTD.
167-185 Gray's Inn Road, London, W.C.1

We invite you to visit our Showrooms.



ALWAYS
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Eureka WEED KILLER

LARGEST
SALE

CHEMISTS prefer this make because it has been sold by the TRADE for many years and not direct to Users. EUREKA is asked for and gives a good profit. AGENTS are fully assisted in the Selling. Please write NOW,

TOMLINSON & HAYWARD, Ltd.

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RETAIL PRICES.

2/9, 6/-, 14/-, and
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Invoiced to the
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Carriage paid on orders of
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The Veterinary Chemical Works
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BONUM Worm Cure

FOR DOGS. Original and Genuine.

Gives remarkable results with perfect safety.
Unsolicited testimonials constantly received.
Packed in three sizes, puppy, medium and
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Wholesale Chemists - - - LEITH, EDINBURGH.

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BECAUSE it enjoys the largest sale of
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BECAUSE it is consistently advertised
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BECAUSE it is well packed, does what it
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One size, retailed at face value, viz.
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1 doz., 36/- 3 doz. at 35/6 6 doz. at 35/- 12 doz. at 34/6 per doz.
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Felix could not help himself. He and
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"RODINE"

does what Cats and Dogs cannot do, it
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SATISFACTION to everyone all round.

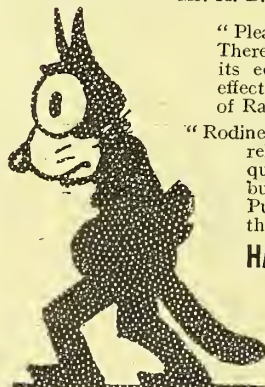
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There is no Rat Poison has
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"Rodine" gives visible results and
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Purchase on best terms from
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Reg'd Trade Mark
FLYCATCHER

Customers who like a big penny-worth like the "VIPER." Its broad inches, the wire hanger and the efficient drip-preventer make it easily the best value on the market. Three widths, 2-in., 3-in., 4-in.

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IT PAYS TO PUSH KAY'S



"BONVET" WORM CURE

permanently increases YOUR PROFITS, by adding many new and regular customers to your list.

Send 10/- TO-DAY for display outer containing 1 doz. 1/3 packets, post free.

LEWIS SMITH, Manufacturing Veterinary Chemist, HEREFORD

SHERLEY'S DOG MEDICINES, INSECT POWDER, SHAMPOO AND LACTOL.

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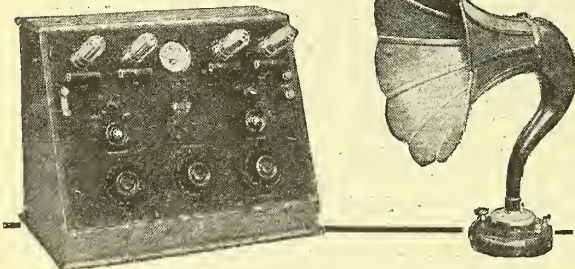
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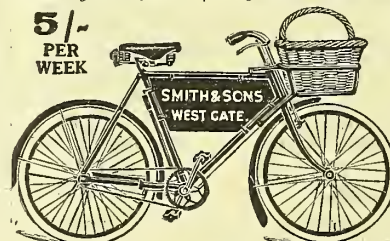
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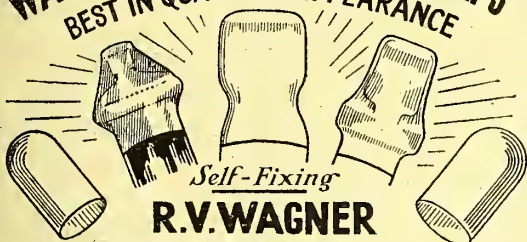
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Transparent, Opaque,
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Collapsible Tubes



Nothing short of
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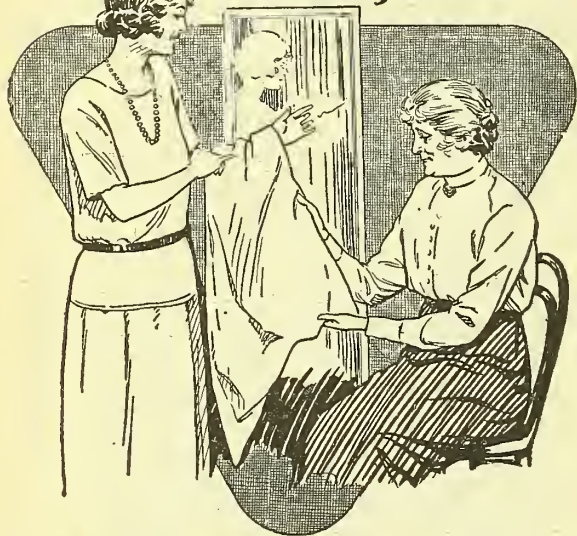
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Established 1857.

*"It looks lovely and feels like
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HERE IS THE REASON

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Where other dyes use salt or soap as a base, Capsol employs pure gelatine.

The dyes are sold in jelly squares—just like table jellies. This gives the following big advantages:

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It is knowledge that makes the product perfect—yet Capsol Dyes retail at 3d.—subject to liberal discounts.

**CAPSOL
DYE**

A
**PHILIP JOSEPHS
& SONS LTD.**

**SHOWCASE
QUICKLY EARNS
ITS COST.**

Try One!

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Wires—"Josiphiah London."

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Many notable dealers testify to the satisfaction received.

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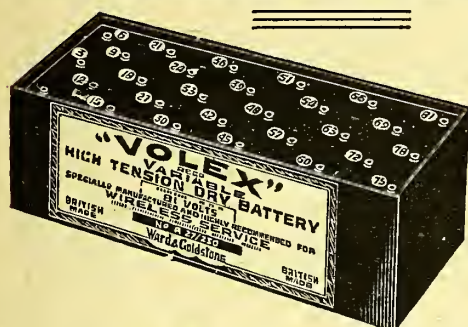
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All above post free. Packages free.
Send for particulars of our D. & P. Scheme, it brings business.

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(Regd.)

HIGH TENSION DRY BATTERIES BEST BRITISH MANUFACTURE

Manufactured from the finest selected chemicals. Particularly recommended for Wireless Services.

| Volt. | Each. | Doz. |
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| 36 | 7/- | 78/- |
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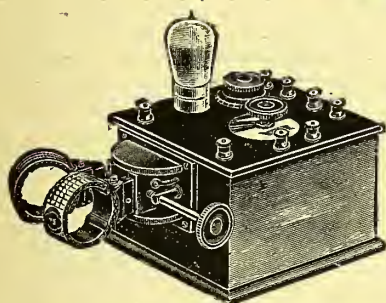
British Made.

The "GÖLTONE" Single Valve Set gives splendid results and receives with remarkable volume and purity signals within a hundred to 150 miles radius. £2/7/6. Marconi Patent Royalties 12/6 extra net. Suitable Coils for tuning in B.B.C. Stations, 10/6. Plug-in Coils for other wave-lengths can be supplied.

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See Catalogue No. R/111 for full details of 2, 3, 4 and 6-Valve Sets, and also Constructional Sets.

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Large 80-pp. Catalogue, No. A/26, illustrates a wide range of Electrical Pocket Lamps, Torches, Hand Lamps, Electro Medical Apparatus, High Frequency Machines, Massage Vibrators, etc., etc. Post free on receipt of Trade Card or Memo Hdg.

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Stocks held also at Glasgow Depot; 95 Pitt St.

"GÖLTONE" (Regd.) CRYSTAL RECEIVING SETS.

British Made.
Licensed under Patent No. 214005/23.

Most remarkable value ever offered. Equal in results to Crystal Sets sold at many times the price.

Polished Ebonite Top and Base. Archimedeoan fine selective tuning, improved type Dustproof Detector, nickelled fittings. Complete with the "Göltone" Super Crystal.

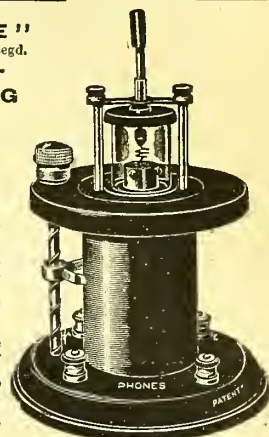
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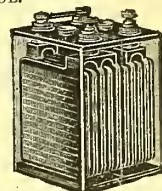


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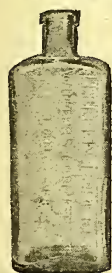
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169-170 Railway Arches, Braintree St.
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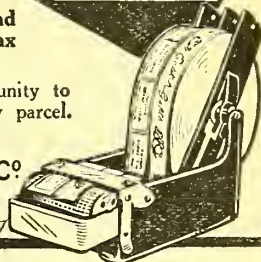
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It also affords an opportunity to ADVERTISE on every parcel.

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PUFFS of ALL KINDS in DOWN and WOOL.
SOLID FACE POWDERS
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It is price-protected, and the sales are directed through Chemists.

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Estd.



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Many Took It!

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Our prices are right, the goods are of our own manufacture, and the satisfaction of yourself and your customers is assured.

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Retail, 3d. 16/- a gross.

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These are two of a large series, particulars of which can be obtained from our illustrated list on application

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BLOOD COOLERS**

28-lb. lots - - 1/6 per lb.
WITH FREE WINDOW DISPLAY.

KEEP YOUR EYE ON OUR ADVERT NEXT WEEK. (P. 45).



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THE demand for advertisements printed in two colours has become so insistent that we are arranging for a section of advertisements to be printed in Murillo Brown and Black in the issues of

MAY 9 (one page only)

JUNE 6

OCTOBER 10

NOVEMBER 14 (one page only)

DECEMBER 12

There are still a few pages to fill in each of these issues. Specimen Colour Sheets and full particulars are obtainable by prompt application to

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THE CHEMIST & DRUGGIST

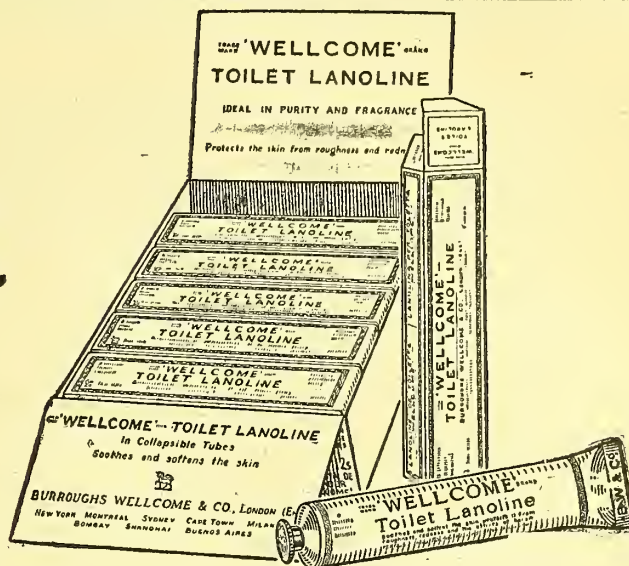
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TOILET LANOLINE

Keeps the skin soft and smooth as velvet

Now packed in bright yellow cartons and display
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Show it and watch your sales increase.

In collapsible tubes of two sizes

Prices in London, 7/6 and 15/- per doz. respectively (subject)

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turns rancid. Pre-eminent as a basis for
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'Wellcome' Lanoline, Hydrous, in tins of 1 lb.

Price in London, 1/7 per lb. net.

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Price in London, 1/9 per lb. net



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A WEEKLY JOURNAL OF PHARMACY AND OF THE CHEMICAL AND DRUG TRADES

THE CHEMIST AND DRUGGIST is in circulation and reputation the leading journal addressing the Chemical and Drug trades in the British Empire and other countries in the Old and New Worlds. It is the official organ of the Pharmaceutical Society of Ireland, the Chemists' and Druggists' Society of Ireland, and of other Chemists' Societies in the Overseas Dominions.

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Coming Events

This section is reserved for advance notices of meetings or other events. These should be received by Wednesday of the week before the meetings, etc., occur.

Tuesday, April 21

Ealing Pharmacists' Association, Town Hall, at 8.30 p.m. Address by Mr. W. J. Melhuish.

Thursday, April 23

Pharmaceutical Society of Great Britain (West London Branch), Slater's Restaurant, 192, Oxford Street, W. Supper and whist drive. Reception at 7 p.m. for 7.30 p.m. by the President and Mrs. Noble. Members, free. Tickets for guests (4s. 6d. each) from the secretaries and from Mr. W. B. Falding (social secretary). Morning dress.

LIVERPOOL CHEMISTS' ASSOCIATION.—The annual smoking concert in aid of the Benevolent Fund of the Pharmaceutical Society will be held in the large ballroom, Adelphi Hotel, on April 29, at 7.30 p.m. The resident secretary in Scotland of the Pharmaceutical Society, Mr. J. Rutherford Hill, will deliver an address. The Lord Mayor of Liverpool will be present. The musical programme is in charge of Alf. E. Beattie, who presents "The Frolics."

English and Welsh News

The Editor will be obliged if subscribers will send him marked copies of newspapers containing items of interest for insertion in this or other news sections.

Contracts

The following tenders have been accepted by the bodies named:—

Bridlington Opera House.—Taylors' Drug Co., Ltd., drugs and sundries.

Croydon Guardians.—Thomas Hodgkinson, Prestons & King, drugs; Carnegie Brothers, dressings; Allen & Hamburys, Ltd., surgical instruments.

Hawarden Guardians.—Mr. R. G. Dann, chemist and druggist, drugs.

West Bromwich Guardians.—Burgoyne, Burbridges & Co., Ltd., drugs.

Wirral Joint Hospital Board.—Evans Sons Lescher & Webb, Ltd., drugs.

Poisonings

The following cases of fatal poisoning, among others, have been recorded since our last report:—

At Birmingham, Mrs. Caroline Reeves, George Street, West Smethwick, died on April 9 from accidentally drinking liniment containing belladonna and chloroform. It was stated at the inquest that the liniment was supplied in a hexagonal bottle.

At the close of an inquiry held by the West London coroner, on April 8, concerning the death of Nellie Dance, wife of a chauffeur, it was found that the deceased committed suicide by taking spirit of salt while of unsound mind. In recording his verdict the coroner expressed the opinion that some restriction ought to be made regarding the sale of spirit of salt.

An inquest was opened at the City of London Coroner's Court, on April 9, on the body of Mr. Archibald Henton Moate, a chemical merchant trading at 29 Mincing Lane, E.C. Harold S. Moate, an accountant, said his father had been in partnership with another man, but the partnership was dissolved. His financial statement showed that he was in a good position. Dr. Rose, who made a *post-mortem* examination, said that Mr. Moate died from syncope, due to poisoning by potassium cyanide. Mr. Moate's late partner, Mr. le Mesurier, giving evidence, said there was a mutual agreement to dissolve the partnership. The inquest was adjourned.

An inquest was held in South London, on April 9, on the body of Irene Hallsworth, wife of a warrant officer in the Indian Army. The husband, giving evidence, stated that his wife had been addicted to drink and drugs. He had tried to break her of the habit. He did not know when she started the opium habit, but probably in infancy. She was born in India. It was not until after his wife's death that he learned she had been taking opium recently. She must have brought a supply with her from India. He produced a handkerchief which he said was stained with opium; a medical man examined the stains in court and said it was opium—the ordinary solid form. Mr. Hallsworth went on to say that his wife must have brought the opium here, because it was most difficult to obtain in this country. She must have suffered agony when she could not get the opium, which could be obtained quite easily in India. He knew that his wife had aspirin, because she took some when she landed here, but he was not aware that she took an excessive quantity. The coroner's officer produced two aspirin-tablet bottles, one empty, which had contained 100 tablets, and the other nearly full. The coroner said he was satisfied that death was due to coma, following the accidental taking of an overdose of aspirin, and he recorded a verdict of "Death by misadventure."

Birmingham

The recent exhibition of samples of foreign goods at the Chamber of Commerce was well patronised by the local manufacturers.

Several dentists, who had failed to pay the annual registration fee within the prescribed time, were fined at Birmingham Police Court on April 8.

A paragraph concerning the effect of the new regulations of the Pharmaceutical Society appeared in the "Birmingham Post" of April 8. The final sentences are: "The object of these stiffer examinations is to give the man entitled to call himself 'pharmaceutical chemist' a better standing in relation to the medical profession. It is, in effect, an attempt to remove that gibe which Continental chemists sometimes throw at their English *confrères* when they speak of them as 'marchands de brosses à dents.'"

An illustration prepared from a drawing by Sir Aston Webb of the new buildings to be erected by Birmingham University (*C. & D.*, March 14, p. 370) appeared in the "Birmingham Post" recently. The extensions link the library with the chemistry laboratory. The architectural scheme is in keeping with the rest of the buildings, but it is intended that the additions shall be carried out on more economical lines. On the ground floor of the new buildings accommodation will be provided for the study of brewing and fermentation; on the first floor there will be departments for zoology and bio-chemistry; and the second floor will be given up to botany. In the higher part of the building, near the tower, will be situated a lecture theatre, which will afford accommodation for an audience of 200. It is hoped that the work will be completed by October 1926.

Liverpool

Mr. Edwin Thompson (Thompson & Capper, Ltd.) has been elected treasurer of the Liverpool Section of the Society of Chemical Industry.

The Liverpool Chemists' Association is anticipating a record contribution at the annual smoking concert for the Benevolent Fund, at the Adelphi, on April 29. The Lord Mayor has promised to attend.

Ayrton, Saunders & Co., Ltd., have received many compliments on the publication of their first quarterly "Link." In the "Evening Express" of April 7 appears an interesting description of the work done in their glass-blowing department, in which scientific glass-ware is turned out under the skilled direction of Mr. H. F. Charlotte.

A striking tribute was paid in "The Liverpool Post" of April 8 to the late Mr. J. A. E. Rayner, managing director of the United Alkali Co., Ltd., whose death was recorded in THE CHEMIST AND DRUGGIST of April 11 (p. 539). Intimately connected with Liverpool for thirty-five years, Mr. Rayner always evaded publicity; "in spite of this, and perhaps partly because of it," continues the "Post," "he was held in exceptional esteem by all the members of the chemical industry. . . . His work was distinguished by his untiring thoroughness."

Manchester

An article on the Pharmaceutical Society's new regulations, by "A Pharmaceutical Chemist," appeared in "The Manchester Guardian" of April 9.

Mr. Percy Bolland has been appointed to represent the Liverpool branch of Francis Newbery & Sons, Ltd., London, E.C., in Manchester and the district.

Miscellaneous

VAN HORSE PARADE.—At the annual van horse parade in Regent's Park, London, on April 13, a first prize was awarded to the entry of Burroughs Wellcome & Co.

CAMERAS STOLEN.—A window at the premises of W. Jones & Co., chemists, Southampton Row, London, W.C.1, was broken recently, and two cameras were stolen.

INQUEST.—An inquest was held at Hessle, Hull, on April 11, on the body of Percy Charles Fountain, aged twenty-eight, described as a chemist's assistant, whose mutilated body was found on the railway on the previous day. A verdict of "Suicide while of unsound mind" was given.

UNLAWFUL POSSESSION CHARGE.—At Brighton Police Court, on April 11, Mabel G. Balthasar, described as the former wife of a doctor, was remanded on a charge of being in unlawful possession of 5 gr. of morphine hydrochloride and of procuring it. It was stated that the accused admitted writing a prescription for supplies.

"POISON GAS."—Owing to the leakage of some chemicals at the warehouses of Beck & Pollitzer, shipping agents, London, S.E., recently, the fire brigade had to be called to disperse the noxious fumes, an operation which required soda greatly in excess of the quantity usually stocked at the fire stations. Several firemen received burns.

GERMAN REPARATION LEVY.—By an Order in Council of April 8, sections 1, 2 and 5 of the German Reparation (Recovery) Act, 1921, have been suspended from April 10. Henceforth British importers will not be required to pay the 26 per cent. levy on goods consigned to this country from Germany, this method of collection being replaced by a system of collective payments effected by a number of German export firms, which was described in the *C. & D.*, April 11, p. 544.

LONDON CHEMISTS' SPORTS CLUB.—The inter-association snooker competition for the Malcolm cup has recently been concluded at the Shaftesbury Hotel, London, W. The competing associations included West Ham, Walthamstow, South-Eastern, Western, South-Western, Northern, Ealing and Eastern, and most of the associations entered two teams of three players. The semi-finalists were:—Western v. West Ham; South-Western v. Ealing. West Ham and Ealing, who proved too strong for their opponents, played off the final on April 8, the latter being the winners by 144 to 114. The final scores were:—

| Ealing | | | West Ham | | |
|----------------|-----|----|-------------------------|-----|----|
| T. E. Gray | ... | 59 | v. L. A. E. Kirkpatrick | ... | 33 |
| Arnold Roberts | ... | 53 | v. T. G. Devereux | ... | 42 |
| A. H. Hayden | ... | 32 | v. B. Wathen | ... | 39 |

Scottish News

Brevities

One Edinburgh chemist did a record trade at Easter in the sale of cochineal for colouring eggs.

On the occasion of their leaving for New Zealand, Mr. J. Wilkie, chemist and druggist, Kirriemuir, and Mrs. Wilkie have been presented by their friends with a suit-case and a blouse-case respectively.

As their representative in Scotland in succession to the late Mr. J. E. Grey, Arthur H. Cox & Co., Ltd., manufacturing chemists, Brighton, have appointed Mr. Clementson, who has represented the company in the North of England and South of Scotland for some time past.

Chemists in the Dundee district held a social evening on April 8, comprising a whist drive, followed by supper. The presentation of whist and golf prizes was made during the course of the evening. Mr. J. R. Milne presided, and Mrs. James Anderson presented the prizes which had been given by Raimes, Clark & Co., T. & H. Smith, Ltd., Evans Sons Lescher & Webb, Ltd., and S. Maw, Son & Sons, Ltd. The evening closed with dancing.

Glasgow

Boots, Ltd., are opening a branch at 505 Victoria Road.

The rambling section of Glasgow Pharmacy Club will visit Walkmill Glen on April 21, starting at 3 p.m. The journey from Cathedral Street to Barrhead will be made by omnibus.

A carboy of nitric acid exploded at the premises of T. & H. Smith, Ltd., manufacturing chemists, Virginia Street, on April 8. Several employees suffered from burns, and three were detained in the Royal Infirmary. The cause of the explosion is unknown.

The spring meeting and Virol cup competition of Glasgow Pharmacy Golf Club was played over White-

craigs course, and resulted as follows:—(First class), Mr. W. McDavid 70, Mr. R. Jack 73, Mr. D. Robertson 73; (second class), Mr. M. Hamilton 72.

An explosion followed by an outbreak of fire at the premises of Edward MacBean & Co., Ltd., oilskin manufacturers, Port Dundas, on April 10, resulted in the death of one girl and minor injuries to two others. The explosion, the cause of which has not been ascertained, occurred in the proofing department, and the damage was considerable.

Scottish Chemists' Golf Trophy

The competition for the Scottish Chemists' Golf Trophy will be held at Gleneagles on May 13, under the same conditions as last year. The trophy presented by A. & F. Pears, Ltd., and the Territorial Cup presented by D. & W. Gibbs, Ltd., will be played for at the same time. Entries, with all handicaps of various clubs and entry fee of 2s. 6d., must be in the hands of Mr. J. Finlay, 302 Morningside Road, Edinburgh, not later than April 22. A scoring card, with handicap, partner and time of starting, will be sent to all who enter.

Irish News

Brevities

Mr. R. Hastings, R.D., has been appointed a member of the committee of the Newcastle (co. Down) branch of the Royal National Lifeboat Institution.

Belfast

An interesting lecture was given in the Minor Hall, Clarence Place on April 3, to a literary society, by Mr. Arthur Storey, L.P.S.I., on "The Psychology of Handwriting." The lecturer, who is an expert on this subject, showed how the average person is influenced by the "personal touch" in handwriting, which, he pointed out, belongs to the same order as gesture. The lecture was illustrated with the handwriting of many famous people of the present day.

The new Parliament of Northern Ireland assembled on April 14, and it is understood that the Government intends to proceed promptly with the Poisons and Pharmacy Bill. From the trade point of view, apart from the return of Mr. T. W. McMillan, M.P., the only interesting feature of the election was the defeat of Mr. R. D. Megaw, Parliamentary Secretary to the Ministry of Home Affairs, who was in charge of this Bill, and the Minister with whom the various drug trade organisations had interviews from time to time.

French News

From the "C. & D." Paris Correspondent.

HER MOTHER'S DAUGHTER.—On March 27 Mademoiselle J. Curie read at the Sorbonne her thesis for the degree of Doctor of Sciences on "Researches on the Alpha Rays of Polonium, Oscillation, Rate of Emission, and Ionising Power."

I MET PROFESSOR GRIMBERT at the entrance to the Central Pharmacy of the Paris Hospitals on March 28. "I am leaving here to-morrow," he said, and on further inquiry I learnt that, having attained the age limit for this post (he was born in 1860), he was retiring from duty as chief pharmacist. He is to be replaced by Professor A. E. Goris, who has been head pharmacist at the Dubois Hospital since 1911.

PRICE OF ALCOHOL FOR THE INDUSTRIES.—The following prices, for 100 litres, have been enforced by a decree of January 1 for pure alcohol for industrial purposes:—For the manufacture of liqueurs for the home market, 500 francs; manufacture of vinegar, 400 francs; manufacture of perfumes, chemical and pharmaceutical products, 500 francs; for the manufacture of any products not liable to consumption tax, 230 francs. Alcohol used for the manufacture of perfumes, chemical and pharmaceutical products, vinegar, liqueurs destined for export, will be supplied at the rate of 250 francs per 100 litres.

M. LANGRAND is Director of the School of Instruction for Pharmacists of the Army of Reserve, and President of the Association of Pharmacists of the Reserve, which he founded in 1906. In 1922 he organised a meeting at the Paris Military Club, which resulted in the formation of a Union of Reserve Officers. This now numbers 60,000 members, and M. Langrand has just been elected one of the nine vice-presidents. The President is M. Lefèvre, ex-Minister of War.

SCHEDULING VERONAL AS A POISON.—M. A. Tardieu, in a thesis for the degree of doctor, having expressed the opinion that the derivatives of barbituric acid possessing a hypnotic action should be included in the schedules of poisons, since the frequent cases of toxic symptoms produced by veronal and derivatives of malonyl urea constitute a danger to the country, the Paris Therapeutic Society has appointed a commission, consisting of MM. Désesquelle, Tiffeneau and Vogt, to investigate this question.

CLAIM FOR TUBERCULOSIS CURE.—M. Victor Dupuis, a Government tax official at Epinal, sued the Academy of Medicine for the payment of the sum of 24,000 francs, which M. Audifred bequeathed to that learned body to be bestowed upon the person who discovered "a curative or preventive remedy for tuberculosis." M. Dupuis, who was a student at the Polytechnique and the École Normale in his younger days, declares that by taking 20 or 30 drops of tincture of iodine regularly during a couple of winters, the disease can be conquered. The Civil Tribunal of the Seine was sceptical, and non-suited the plaintiff.

FLUID EXTRACTS FOR SYRUPS.—M. Gastard, a pharmacist at Evron (Mayenne), who is a candidate for membership of the Paris Society of Pharmacy, took his degree of Doctor of Pharmacy at the Nancy Faculty with a thesis on "The Preparation of Pharmaceutical Syrups with Fluid Extracts." He points out that as the Codex already provides for the preparation of certain syrups from tinctures and extracts, there is no logical reason why the practice should not be extended to the preparation of syrup of ipecacuanha, opium, krameria, valerian, cinchona, compound sarsaparilla, etc., from fluid extracts. Balsamic and resinous syrups, he contends, should not be prepared by this means, nor fruit juice syrups, except buckthorn.

A BOTANIST IN FRANCE.—Southern France is full of novelty to a British botanist, and perhaps the Pyrenees are especially interesting. I remember walking for hours up the Pierrefitte pass (near Luchon) last August, between fine plants of monkshood, and finding a *Swertia* on another pass near Eaux-Chandes. M. Sennen enumerates some rare and local plants, mostly in the Eastern Pyrenees: *Centaurea pallidula* (Cerdagne) *C. corymbosa* (la Clappe, near Narbonne), and many varieties of *Statice*; and incidentally mentions the *Xatartia scabia*, only found on the Puigmal (between the Pyrenées Orientales and Spain) which takes its name from M. Xatart, a pharmacist in the little town of Prats-de-Mollo, at the foot of the well-known peak of Canigou.

VANISHING LANDMARKS.—Passing down the Rue des Lombards recently, I noticed that the ancient "drug-gery" at the sign of the "Grand Monarque" was closed, and that the quaint old gabled house is for sale. "Notre Dame des Victoires," just opposite, disappeared shortly before the close of the late war. In fact, the only specimens now left of the fifty old-world signs which made this street unique over half a century ago are on the corner shop known as the "Pharmacie Centrale des Lombards," which has successively bought out five or six of the old establishments of its kind, including Pierre Pomet's "Barbe d'Or," founded in 1663. The "Sphinx" and the "Silver Mortar" may, however, still be seen just round the corner, in the Rue St. Denis. But these are the sole survivors of the host of old places, half-pharmacies, half-wholesale drug-houses which made this little corner of Paris a curious picture of a bygone epoch, and which were noticed in our columns nearly thirty years ago (*C. & D.* II, 1897, p. 181).

American Notes

By "The Man from London."

CUTTING PRICES.—Owing to the fact that for some time the Liggett chain stores have been undersold by independent price-cutters, the Louis K. Leggett Company has revised its selling schedule to figures equal to or below those of its rivals.

PADLOCKING BOOTLEGGING DRUG STORES.—Attorney Buckner says that all drug stores found illegally dispensing liquor will be padlocked and kept shut up until the court releases them again to their owners. "Under padlock proceedings, these bootlegging druggists will be put out of business for a year."

A LARGE DRUG STORE.—Petty's pharmacy in Newark, New Jersey, claims to be the largest drug-store in the world, employing more persons than any other retail drug establishment. The 120 employees are made up as follows: 77 co-workers in the main store; 24 co-workers in the laboratory; 19 in the branch store. The prescription department fills an average of 300 prescriptions every day, and accounts for 17 registered pharmacists.

THE U.S. DEPARTMENT OF COMMERCE reports that, according to data collected concerning manufactures in 1923, organic chemical compound manufacture increased by 70 per cent. The leading items were:—Refined glycerin, 74,104,854 lb., value \$12,214,012; formaldehyde, 20,213,973 lb., value \$2,604,061; ethyl acetate, 2,529,783 gall., value \$2,192,989; acetone, 8,742,805 lb., value \$1,864,986; carbon bisulphide, 25,200,967 lb., value \$1,337,024; and vanillin, 227,997 lb., value \$1,326,935.

LIQUOR PRESCRIPTIONS REGULATIONS.—The council of the city of Watertown, New York, passed an ordinance recently which provides that pharmacists shall file with the city clerk monthly a record of all prescriptions for liquor, showing the amount, kind, date, to whom sold, and the doctor's name; that every pharmacist shall keep a similar record himself, and that prescriptions filed with the city clerk shall be open for inspection by the city manager or chief of police.

MOTOR FIRM'S BY-PRODUCTS.—The Ford Motor Co. is credited with having the largest wood distillation plant in the world, situated at Iron Mountain, Michigan. The company produces an enormous quantity of by-products from hardwood scrap in the shape of charcoal, pitch, creosote, ethyl acetate, refined wood alcohol, methyl acetone, and acetate of lime. The surplus left over from these by-products that the company uses bring about \$2,500,000 a year. The Ford Co. is said to have made nearly \$13,000,000 from its by-products for the year 1924, and about \$4,000,000 of this large sum comes from by-products reclaimed from waste material around various plants.

TENTH EXPOSITION OF CHEMICAL INDUSTRIES.—The Tenth Exposition of Chemical Industries is to be held during the week of September 28—October 3, 1925, at the Grand Central Palace, New York City. The latest developments in production methods, equipment, and fundamentals of the industry will be on view. Applied chemistry and engineering, in view of improving the quality, increasing the production and lowering the cost to meet competition, will constitute one of the dominant notes at the Exposition. The management of the Tenth National Exposition of Chemical Industries, Grand Central Palace, New York City, will give full details on application.

THERMOMETER BILL PASSES SENATE.—The Bill to regulate traffic in clinical thermometers was passed by the Senate without objection. The purpose of this legislation is to standardise all clinical thermometers through the United States Bureau of Standards. The measure provides that inspections, tests or certifications shall be performed by Government authorities, and a reasonable fee charged to make the work self-sustaining. Regulations will be issued under the authority of the Secretary of Commerce, which shall include "specifications, reasonable tolerances or permissible variations which may be allowed and also require-

ments for designating marks to be placed on the thermometers as may be deemed necessary." The Bill provides that thermometers may not be introduced into any state or territory or from any foreign country unless the thermometer has been marked or certified in accordance with the provisions of the Bill. It is stated that clinical thermometers may be purchased at prices ranging from \$16 or \$18 to prices above \$100 a gross, and it is claimed that unreliable thermometers known as "culls" are offered for sale.

DANGERS OF VERONAL.—Drs. Leake and Ware, in the "Journal of the American Medical Association," draw attention to some of the dangers of barbitol (veronal). They claim that the action of barbitol ordinarily produces sleep in from one-half to one hour, and in moderate doses is seldom followed by distressing after-effects. From 70 to 90 per cent. of the drug is eventually eliminated in the urine; but its excretion is slow and is often extended over a period of from two to four days, which frequently accounts for poisoning when the individual dose has been only of moderate size. In the Los Angeles General Hospital there have been sixty-one cases of barbitol poisoning in a period of two years. The authors conclude that while barbitol is a valuable hypnotic, it has a slight tendency to habit formation to persons of unstable mental condition. In California there is no restriction on its sale. The authors recommend that barbitol should be placed on the list of poisons, or should be sold only on a physician's prescription.

South African News

From "C. & D." Correspondents.

"The Chemist and Druggist" is supplied weekly to members of all the Chemists' Societies in South Africa.

The Union

THE TARIFF QUESTION.—The Federation of British Industries in London understands, by cable, that the South African Government has revised the Union tariffs on a *quid pro quo* preference basis. It is practically certain (says the F.B.I.) that the South African Government intend to introduce these revisions in the forthcoming Budget and to drop the British preference. The Federation also understands that the South African Government is preparing certain most-favoured nation commercial treaties with foreign countries.

Cape Province

PERSONAL.—Mr. A. Paterson, c/o E. W. Wells & Co., dispensing chemists, Bathurst Street, Grahamstown, Cape Province, has been elected a member of the Colonial Pharmacy Board for three years. He attended the ordinary business meeting at Cape Town on February 12, travelling over 1,300 miles in order to do so.

ACETIC ACID DUTY REBATE.—According to advice received from the Canadian Government Trade Commissioner at Cape Town, a rebate of the customs duty would be allowed on acetic acid imported into the Union of South Africa for the tanning and textile industries. This rebate is authorised (Government "Gazette," February 6, 1925) on acetic acid on first importation or when taken out of bond by a tanner or textile manufacturer on a declaration by the tanner or textile manufacturer that the acetic acid in question is for use solely by him in the tanning or textile industries as the case may be. If any portion of such acetic acid is sold or otherwise used or disposed of, the whole of the duty rebated becomes payable. The ordinary duty on acetic acid not exceeding the strength of proof, when in vessels of a capacity of not more than one imperial quart is 1s. 7d. per imperial gallon, general tariff, and 1s. 6d. British preferential tariff (applicable to Canada). In larger vessels, the rates are 1s. 1d. and 1s. respectively. In either case, for each degree of strength in excess of proof, there is an additional duty of 5d. and 4d. respectively per imperial gallon. The strength of proof is held to be equal to 6 per cent. of absolute acid.

Colonial and Foreign News

IMPORT PROHIBITIONS IN FIJI.—The importation into Fiji of omnopon, omnopon-scopolamine, and of the "Tubanic" brand of morphine and diamorphine tablets is prohibited by a Proclamation dated February 5, 1925.

FRENCH AFRICAN ARACHIS EXPORTS.—During the year 1923 French Western Africa exported 289,083 kilos of arachis nuts, of which the Senegal yielded 285,250 tons. Of this total, 205,497 tons were consigned to France, and 83,585 tons to other countries, Great Britain taking 13 per cent. of the total exports.

NARCOTICS FOR ITALIAN COLONIES.—For the importation of narcotics ("dangerous" drugs) into Italian Somaliland and Eritrea, it is necessary to obtain a permit from the Government of the colony to which the goods are to be consigned. This licence may also be obtained on application to the Ministry of the Colonies, Office No. 1, Rome.

PARCELS FOR CUBA.—Invoices for goods liable to *ad valorem* duty destined for Cuba have to be accompanied by the manufacturer's original invoice and a sworn statement to the effect that the declared amount represents the actual value of the goods inclusive of carriage costs. These documents have to be submitted to a Cuban consulate for attestation.

PENNY SALES IN POLAND.—Following a petition presented by the General Association of Polish Pharmacists, the Health Department has agreed that the minimum charge for counter sales shall be fixed at 10 groszy—one penny. This step was dictated by the fact that for small amounts of many articles the official drug tariff charge is less than a penny.

HAIR LOTIONS FOR NORWAY.—The department for social affairs announces that all alcoholic hair lotions imported into Norway must be rendered unfit for consumption by the addition of 0.3 gram of dry extract of colocynth to every 1,000 c.c. The addition of this denaturant is not required in the case of perfumes, eau de Cologne, and other toilet preparations.

EGYPTIAN ALCOHOL PRODUCTION.—Egypt possesses only one alcohol distillery, in Massara, the annual production of which amounts to about 11,000 tons, which is in excess of the demand, so that a large amount is available for export. The spirit is chiefly produced from the residues supplied by sugar refineries. The Government derives a revenue of ££150,000 annually from this plant.

NEW AUSTRIAN PATENT FEES.—The basic fees for patents, apart from the charges for forms, stamps, etc., in Austria have been raised, the application fee now being fixed at 25, and the annual fee for the first and second years at 30, rising to 600 Austrian shillings for the fifteenth year. The charge for registration of a trade-mark is 15, and for international registration 30, Austrian shillings.

STUDENTS IN GERMANY.—There are at present 1,553 students of pharmacy immatriculated in the twenty German Universities, compared with 1,100 in 1914. The total number of university students now amounts to about 64,000, including some 7,000 women and 6,000 foreigners and Germans from abroad. The technical high schools report an attendance of 23,507 students, against 12,000 before the war.

BRAZILIAN PHARMACY MEDAL.—Senhor Pharmaceutico Virgilio Lucas, editor of "Medicamenta," who was recently awarded the Cezar Diogo Prize for his work on hydrogen peroxide (*C. & D.*, April 4, p. 503), has handed over the sum in question—one conto of reis—to the Brazilian Association of Pharmacists, to be invested as a capital out of which a gold medal is to be awarded every two years for the best work published on analytical chemistry as applied to pharmacy.

BELGIAN DEFINITION OF SERUMS.—The director-general of the Belgian Customs has laid down that only those serums obtained from the blood of animals which have been submitted to some special treatment may be admitted duty free, under No. 381 of the new tariff. On the other hand, artificial or physiological serums,

containing various mineral constituents, are to be classed under No. 382, i.e., they are dutiable as compound medicines or pharmaceutical specialities.

HUNGARIAN CUSTOMS' TARIFF.—The new Hungarian customs tariff is designed to protect the development of the chemical and pharmaceutical industry of the country, which is still in its initial stage. Consequently high duties are imposed on medicinal products which are actually manufactured in Hungary, or of which the manufacture is contemplated. However, in the case of products which are as yet not being produced in the country, the new duties will not be applied until they are actually being manufactured in adequate amounts to meet the demands of the home market. Foreign pharmaceutical specialities are now only admitted into Hungary, provided their value and the necessity of admitting them is attested by a clinician, or the medical officer of a public hospital.

SPECIALITIES IN PERU.—The regulations originally enacted in 1922 regarding the importation of pharmaceutical specialities into Peru became definitely effective on December 1, 1924. Details of these new regulations were given in the *C. & D.*, I, 1923, p. 703, the chief provisions being:—Only qualified pharmacists are permitted to import pharmaceutical specialities; the composition must be disclosed on the label; specialities have to be registered with the commission of inspection of pharmacies in Lima, and approved, prior to being placed on the Peruvian market; a pharmacist established in Peru must be appointed as the foreign manufacturer's responsible representative. A proposal is now under discussion to introduce a medicine-stamp tax on all preparations answering this description, amounting to 10 per cent. of the sale price. In this connection it may be mentioned that the term "pharmaceutical speciality" applies to all preparations not included in the French Codex.

PHARMACY IN BULGARIA.—In Bulgaria all matters pertaining to pharmacy are dealt with by the Medical Council attached to the Public Health Department, an administrative body composed exclusively of medical men. When purely pharmaceutical questions are under discussion, a special commission consisting of three pharmacists, one of which is the chief of the pharmaceutical section in the Public Health Department, and the other two are owners in business, is consulted. However, this commission acts merely in an advisory capacity, and it cannot be said that its collaboration has proved beneficial to the interests of the profession at large. For this reason there is a movement on foot aiming at the creation of a purely professional representative body, to deal with all pharmaceutical questions. There are two professional associations, one of the owners of businesses, while the other includes assistants and apprentices, each of which publishes its own journal. Unfortunately the two associations are unable to agree on points of common interest to both parties, a fact which is detrimental to the status of the profession. A few years ago the owners of pharmacies joined to form a co-operative society for the collective purchase and distribution of pharmaceutical supplies, and this enterprise has proved eminently successful; indeed, it promises to develop into a very important business undertaking. To obtain permission to market a foreign pharmaceutical speciality in Bulgaria, an application for a licence must be submitted to the Medical Council. This licence is granted only after an analysis of the preparation and exhaustive clinical tests, and it is upon these reports that the Medical Council bases its decision, often only after a very protracted investigation. The introduction of the purely personal system of concessions, whereby the right to transmit or sell a pharmacy was abolished, has been unsuccessful from a business point of view, and has proved somewhat prejudicial to the status of the profession. The Russian pharmacopoeia of 1910 is still the official standard; however, a special commission has been appointed, composed of pharmacists and physicians, presided over by the professor of pharmacology of the faculty of medicine in the University of Sofia, to elaborate a national Bulgarian pharmacopoeia, but so far the work of preparing the new standards has not assumed definite shape.

Legal Reports

Appeal Adjourned.—A King's Bench Divisional Court consisting of Lords Justices Bankes and Atkin heard, on April 2, an appeal by Mr. W. D. Noble from an order of Judge Crawford, in the Southend County Court, refusing to suspend an order under which Mr. Noble had to make certain payments to Vinolia Co., Ltd., of a debt alleged to have been contracted by him for goods sold and delivered. Mr. Noble, who appeared in person, said the matter arose out of an action brought against him by Vinolia Co., Ltd., in the Cheshire County Court in 1922. For many years he was the managing director and principal shareholder in Noble's Drug Stores, Ltd., and for about fifteen years the business was carried on more or less successfully. In 1918 it was compulsorily wound up. A receiver was in charge when the goods were ordered from Vinolia Co., Ltd.; when the company sued him he was too ill to attend the court, and judgment went against him by default. In 1923 a contract for the sale of the business was entered into, but the purchase money was not paid. Mr. Noble said that if he had not been kept out of the purchase money he would have been able to discharge the debt. With the aid of building societies he had purchased the whole of the properties, and all he had to find was £900, when he would be in receipt of annual rentals amounting to about £700. His wife lived at Southend, where he had a chemist's shop—a business carried on as a limited company. There was a manager in charge, but he (Mr. Noble) spent as much time as he could in the shop trying to work up the business. Mr. W. T. Monckton, for Vinolia Co., Ltd., said that on March 6, 1924, Judge Crawford made a committal order against the defendant, suspended during payment of £1 a month. Six instalments were paid, and on December 4 Judge Crawford suspended the order until January 16 this year, on condition that the defendant paid £2 within fourteen days, failing which the warrant was to issue. The defendant gave notice of appeal against that order, and applied both to the county court judge and the divisional court for a stay of execution, but in both courts the application was refused. Mr. Noble said he was appealing from the order of December 4. He was not in a position to pay, and, as he told the county court judge, he was living from hand to mouth. He had been involved in litigation for three years. Lord Justice Bankes: When do you think that the litigation in the High Court will arrive at some definite conclusion under which the money will be released? Mr. Noble said he thought there was every chance of things being cleared up within a month. Lord Justice Bankes: Then what we had better do is to adjourn this appeal for two months, with liberty to apply to Lord Justice Atkin and myself. An order was made accordingly.

Bankruptcy Reports

Re John Hutcheon, 116 St. James's Road, Northampton, chemist.—The adjourned public examination of this debtor was held recently at the County Hall, Northampton. The statement of affairs (*C. & D.*, February 7, p. 186) showed a deficiency of £1,711 17s. 9d. The debtor stated that he came to Northampton in September 1920 and was employed as manager of a business, but in September 1923 he undertook the business himself, and advertised for capital. The premises were fitted up at a cost of £250 and stocked to the extent of £150. He was aware of his position prior to January 1924, but there were special debts covered by patent and trade rights held under his own name and the name of others. One of the trading rights was the manufacture of a chemical which prior to the war was only obtainable from Germany. The examination was again adjourned.

THE Batley (Yorkshire) Chamber of Trade has established a town's advertising and publicity committee with a view of persuading local people of the benefits of shopping in the town.

New Companies and Company News

P.C. means Private Company and R.O. Registered Office.

A. DEVON & SON, LTD. (P.C.).—Capital £3,000. Objects: To develop the business of Alexander Devon & Son, Ltd., 128 Peter's Hill, Belfast, as manufacturing chemists, mill furnishers, etc. R.O.: 128 Peter's Hill, Belfast.

LLOYD'S STORES, LTD. (P.C.).—Capital £5,000. Objects: To acquire the business of a grocer, druggist, etc., carried on by R. H. Lloyd at 23 Bridge Street, Newport, Mon., as "Lloyd's Stores." The directors are: R. H. Lloyd and S. B. Hodgetts.

METHLEY CHEMICAL CO., LTD. (P.C.).—Capital £1,000. Objects: To carry on the business of chemical manufacturers, druggists, chemists' merchants, agents and dealers, etc. The directors are: H. E. Dadswell, E. A. Peters, and G. D. Borman. R.O.: Methley, Yorks.

SCOTT & TURNER (IRELAND), LTD. (P.C.).—Capital £500. Objects: To carry on business as manufacturers of liver salts, manufacturing drysalts, mustard manufacturers, margarine importers, provision merchants, etc. The directors are: G. A. France, G. Raine, and H. A. Raine. R.O.: 23 Great Ship Street, Dublin.

NEULANT PELKMAN, LTD. (P.C.).—Capital £1,000. Objects: To carry on the business of mechanical, electrical and general engineers, specialists in the construction, supply and installation of plant and machinery for use by manufacturing, analytical and other chemists, etc. R.O.: 23-9, Avenue Chambers, Southampton Row, London, W.C.1.

PRODUX, LTD. (P.C.).—Capital £5,000. Objects: To acquire the business of a chemical manufacturer now carried on at 353 Chester Road, and 14 Cornbrook Road, Old Trafford, Manchester, as "William Harold Arthur Chester." The directors are: R. P. Chester, W. H. A. Chester, and F. G. Harris. R.O.: 312 Deansgate, Manchester.

JAMES DAWE & CO., LTD. (P.C.).—Capital £1,000. Objects: To carry on the business of wholesale and retail chemists and druggists, chemists' and druggists' sundriesmen, vendors of patent medicines, prepared foods and other proprietary articles and preparations, mineral waters, perfumes, soaps, toilet and sanitary requisites and materials, opticians, photographers, etc. The directors are: R. J. P. and Mrs. Ada H. Dawe, 81 Malden Road, London, N.W.5.

FLEET FERTILIZERS, LTD.—At a meeting held at Fleet on March 18 it was resolved that this company be wound up voluntarily. Mr. B. D. G. Ball was appointed liquidator.

BROWNS (CHEMISTS), LTD.—At a meeting held at Clitheroe on April 4, it was resolved that this company be wound up voluntarily. Mr. T. Parkinson, 3 Ormerod Street, Burnley, was appointed liquidator, and a meeting of creditors will be held at the above address on April 21.

BARCLAY & SONS, LTD.—The twenty-ninth annual report of the directors for the year ended December 31, 1924, states that the hope expressed in the previous report has been realised in spite of the difficult conditions still prevailing. The profit for the year, including £612 10s. 3d. brought forward, is £6,039 3s. 9d., out of which has been paid interest on debentures £640 7s., leaving a balance of £5,398 16s. 9d., which the directors recommend should be applied as follows:—To pay a dividend at the rate of 5 per cent. on the preference shares, less tax, £1,355 9s. 6d.; to pay a dividend at the rate of 5 per cent. on the ordinary shares, less tax, £742 17s. 6d.; to income-tax reserve, £1,000; to write off capital expenditure, £196 0s. 4d.; to write off proprietary rights, £900; to carry forward, £1,204 9s. 5d.; making a total of £5,398 16s. 9d. Mr. R. H. Groves, F.S.M.C., chemist and druggist, retires from the board, but being eligible, offers himself for re-election.

Veterinary Remedies in South Africa

THE "Union of South Africa Government Gazette," dated December 24, contains new regulations governing the sale of stock remedies throughout the Union. The regulations came into force on April 1, 1925:—

"Stock Remedy" shall mean any pest remedy sold or intended or offered for sale for internal administration in the destruction of parasites or prevention of parasitic infection of animals or in the cure or prevention of disease of animals.

1. Every importer of a stock remedy and every proprietor or manufacturer of a stock remedy made in the Union shall register such remedy with the Department of Agriculture in the manner required by these regulations, and no person shall sell or offer for sale any stock remedy not so registered. On registration a certificate shall be delivered to the person registering. Each certificate of registration shall in every case expire on December 31, if not renewed on application made after December 1. Remedies prescribed for individual animals by any qualified veterinarian, or remedies prepared to customers' specification by any qualified pharmacist, or recognised pharmaceutical preparations sold without recommendations as to use, are excluded from the scope of these regulations.

2. Every person required by these regulations to register a stock remedy shall make application *in triplicate* to the Department of Agriculture, Pretoria, on the form following:—

Form of Application for Registration of a Stock Remedy

1. Name of person registering
2. Address of person registering
3. Whether applicant is importer or manufacturer
4. Descriptive name or brand
5. Composition
6. Directions to the consumer for use
7. State specifically what preventive or remedial properties are claimed for the stock remedy
8. I/We hereby apply for the registration under Act No. 21 of 1917 of the stock remedy, of which particulars are given above.

.....
Signature of person registering.

Registration accepted for the year ending December 31, 19.....

Date of Registration

.....
Secretary for Agriculture.

3. (a) Under "composition" in item (5) of the application for registration, the applicant shall state the name of each and every ingredient for which efficacy is claimed, together with the percentage amount in which each ingredient is present and the form in which it occurs. Other constituents which the vendor desires to mention without claiming specific efficacy may be grouped under the terms, "adjuvants," "emulsificants," "inert ingredients," or other appropriate term, according to the nature of the claims made for them.

(b) The amount specified shall be the minimum percentage unless the maximum is expressly required. In the case of poisonous ingredients the maximum as well as the minimum percentage shall be specified.

(c) The statement of the percentage amount shall be by weight in the case of solid remedies, and shall be in grams per hundred cubic centimetres in the case of liquid remedies. A semi-fluid remedy shall be regarded as a liquid if recommended for use on a volumetric basis, but as a solid if recommended for use on a gravimetric basis.

(d) In making a statement of composition recognised analytical, pharmaceutical, or commercial terms shall be employed wherever possible. Provided the meaning of the terms used is clear, a considerable degree of latitude in expression may be recognised, but the Department reserves the right to refuse registration on grounds of inadequate description of the remedy.

4. (a) Under item (7) of the application for registration, the applicant shall include triplicate copies of receptacle labels and all pamphlets and notices advertising the product to be registered. He shall also forward in triplicate to the Department within one month of issue to the public copies in triplicate of all amended or new labels, pamphlets, or notices as aforesaid.

(b) The applicant shall further, if required thereto by the Department, furnish experimental evidence in support of his claims as to the preventive or remedial properties of the remedy. In the event of such evidence failing to prove to the satisfaction of the Department that there are reasonable grounds for the claims, the application for registration may be rejected.

5. The acceptance for registration of any proposed brand or brands shall be subject to the approval of the Department, and no brand shall in any case be accepted for registration if deemed by the Department to be similar to one already registered or to be of an insufficiently distinctive nature.

Labelling of Receptacles

6. No person shall sell or offer for sale any stock remedy unless the receptacles are legibly and durably labelled giving—

(a) The name or brand registered under these regulations;

(b) The minimum net weight or, alternatively, in the case of liquid remedies, the minimum volume of the product contained in such receptacles;

(c) The information required under (7) of the application for registration or such summary of it as shall be acceptable to the Department;

(d) The guaranteed composition of the contained remedy as registered, or such summary of it as shall be acceptable to the Department.

Provided that where the nature of the receptacle is such that it cannot be satisfactorily labelled as provided under this regulation, the seller of any stock remedy shall, with the invoice, deliver to the purchaser a printed statement giving the information required in (a), (b) and (c) above, together with a guarantee of the composition of the stock remedy as registered. In the case of products liable to deterioration on storage, the latest date upon which the guarantee holds good shall be legibly and durably recorded upon the receptacle or upon the invoice or printed guarantee. In the case of products containing ingredients deemed to be poisonous, the word "poison" shall, if required by the Department, be legibly, prominently, and durably recorded upon the receptacle or upon the invoice or printed guarantee.

7. Reference to registration on labels or statements in lieu thereof or in advertising literature shall be confined to the words "Registered in terms of Government Notice No. of 192 ..." and no phrasing shall be used which is calculated to lead the purchaser to believe that registration implies special approval or official guarantee of efficacy upon the part of the Department.

GENERAL

8. No person shall sell or offer for sale any unregistered stock remedy or any stock remedy which fails to conform in composition and other particulars with the statements made in the certificate of registration issued under regulation No. 1. or in advertising literature, or by other agency make claims which have not been embodied in such certificate.

9. No person shall tamper with any parcel of stock remedy with intent that any sample thereof taken in pursuance of the Act No. 21 of 1917 shall not correctly represent the contents of such parcel.

10. Any person who sells or offers for sale a stock remedy not registered under his own name or brand shall, when required by an officer authorised by the Department, produce for inspection a statement of the composition guaranteed under these regulations, or satisfactory proof of registration.

11. Any person or firm contravening any of these regulations shall be liable to a fine not exceeding £10.

12. The prescribed tariff for the analysis of stock remedies referred to in section *twenty-four* of the Act No. 21 of 1917 shall be £1 1s. for a determination of any constituent with a maximum of £10 10s. per sample.

Associations' Winter Session

Cardiff.—The annual meeting of the Cardiff Pharmacists' Association was held at the Park Hotel on April 12. The President (Mr. S. W. Hague) occupied the chair. The assistant secretary (Mr. Whitney Evans) gave an account of the Association's activities during the year 1924, and a satisfactory financial statement was submitted by Mr. Reg. Davies (treasurer). The election of officers for the ensuing year resulted as follows:—*President*, Mr. Sydney Harman Willis; *Vice-President*, Mr. Thomas Lewis, Ph.C. (Head of Pharmacy Department at the Welsh College of Pharmacy); *Secretary*, Mr. W. Gwynne Wigley; *Assistant Secretary*, Mr. Whitney Evans; *Treasurer*, Mr. S. W. Hague; *Committee*, Messrs. A. Hagon, Jabez A. Jones, J. D. Jenkins, Owen Jenkins, Malcolm Davies, A. J. Harris, E. Poole, E. A. Ward and Reg. Davies. Mr. J. D. Jenkins was elected a life member of the Committee. Votes of thanks were accorded to the ex-President (Mr. S. W. Hague) and the ex-secretary (Mr. J. W. J. Newton) for their services during the past year. Mr. A. S. Johnson introduced the question of chemists and the Jurors Acts, and it was urged that the Pharmaceutical Society should make representations to the Government that chemists and druggists might be placed in the same position as pharmaceutical chemists in exemption from jury service.

Liverpool.—At an open meeting of the Liverpool Chemists' Association and branch of the Pharmaceutical Society, held on April 1, the President (Mr. J. L. Hirst) introduced Dr. Charles W. Budden (Hoylake) to deliver his popular lecture on *The Open Road*, illustrated by over 100 slides. The lecturer dealt especially with the virtues of an open-air life.

London (E.).—The East London Pharmacists' Association held a meeting at Limehouse on April 2, Mr. A. R. Keith (President) in the chair. Mr. G. A. Tocher (secretary, London Pharmaceutical Committee) dealt with Insurance matters, and the chairman reported on the proceedings of the recent Retail Pharmaceutical Union delegate conference. The meeting terminated with a discussion on pharmaceutical affairs in general. Nominations for the election of officers at the annual meeting in June should be sent to the hon. secretary before May 31.

Manchester.—The annual meeting of the Manchester Pharmaceutical Association was held on April 2, Mr. R. G. Edwards (President) in the chair. The report of the Council was read by the secretary (Mr. T. Miller), who outlined the work of the session. The treasurer (Mr. A. J. Pidd) submitted the balance sheet, showing a balance of £87 1s. 9d. The officers of the Association were thanked for their services. A resolution was proposed by Mr. D. Abrams, "That any member of the Council who fails to attend three consecutive Council meetings (without notifying the secretary of his inability to attend), automatically resigns, and the Council be empowered to co-opt a new member in his stead." It received no seconder. The constitution of the Council remains the same as before. Mr. L. Moreton Parry (Liverpool), retiring member of the Council of the Pharmaceutical Society, speaking with regard to his work on the Council of the Pharmaceutical Society, said he had always given of his best and would continue to do so, if he was re-elected. He dealt with the Delegates' Conference of recent date, and said it should never have been called. It was a blunder, not of the President, but of the Council as a whole. He briefly explained what had been done since that Conference and the consideration which had been shown to the expressions made by the delegates. What had been accomplished could not be published, because it was not a sound policy to detail the negotiations they had, say, with the Home Office. Regarding "Dangerous Drugs" regulations, the Council would always carefully watch the interests of chemists in that matter, as in others. They were grateful indeed for the support given by Manchester to the Benevolent Fund. He could assure them that it was doing splendid work and being administered with

care and thoughtfulness. Mr. Kirkby moved a resolution in support of the candidature of Mr. Parry; this was seconded by Mr. Cleworth and carried unanimously.

National Drug and Chemical Union.—The seventh annual meeting of the National Drug and Chemical Union was held at Anderton's Hotel, London, E.C., on April 5. The following resolutions were passed:—(1) "That this conference of drug and chemical workers is of the opinion that the interests of the whole community would be best served by the complete nationalisation of the medical services; and that until such time as a national medical service is in existence, all retail and dispensing establishments contracting under National Health Insurance Acts for the supply of medicines, drugs and surgical sundries shall be obliged by the Minister of Health to observe payment of standard trade union wages and conditions; similarly that the prices of drugs and surgical sundries listed upon National Health Insurance tariff shall be based upon the payment of standard trade union rates of wages and conditions recognised in the wholesale trade." (2) "That, while agreeing with the statement of the Retail Pharmacists' Union as to the high skill and arduous training demanded of pharmacists, this conference of drug and chemical workers desires to call attention to the fact that owing to no minimum rates of wages being in operation many pharmacists are being compelled to accept service under unsatisfactory wages and conditions." (3) "That this conference calls for State inspection of all dispensaries, public and private, with a view to securing accuracy and cleanliness in the preparation of all drugs and medicines." (4) "That this annual general meeting of the National Drug and Chemical Union urges the Government to provide by pension for those radiographers who, in hospital work, have contracted x-ray dermatitis and suffer disablement." The secretary's report mentioned that 1,000 new members had been admitted during 1924.

Peterborough.—The annual meeting of the Peterborough Chemists' Association was held recently, at which Mr. C. Bayley, Uppingham, was unanimously elected *President* for the ensuing year, in succession to Mr. Fred. Sturton, Peterborough, who was appointed a member of the Council. A report was read by the secretary on the year's work. In the evening the annual dinner was held at the Angel Hotel. Mr. Fred. Sturton, the retiring President of the Association, presided, and there were about forty guests present. During the evening an excellent programme of songs was given. Mr. J. W. Hall submitted the toast of "The Pharmaceutical Society of Great Britain," to which Mr. Keall, a member of the Pharmaceutical Council, responded, and gave an excellent *résumé* of the work of the Council. The toast of "The President" was given by Mr. Bayley, and responded to by Mr. Fred. Sturton. Mr. J. G. Sturton gave "The Ladies," and "The Visitors" was submitted by Mr. Calcutt and responded to by Mrs. J. Y. Keeble.

Scottish Federation.—The quarterly meeting of the Executive of the Scottish Pharmaceutical Federation was held recently in Edinburgh. Mr. W. G. McNab (chairman) presided. The secretary, Mr. H. Graham Macmillan, reported on a number of claims that had been satisfactorily dealt with since the last meeting. A letter from the Glasgow Branch of the Pharmaceutical Society suggested that the Executive communicate with the owners of two well-known proprietary lines to ensure if possible that the sale of their speciality should be confined to chemists only. The finances of the Federation were reported to be satisfactory.

Wallasey.—On March 31 members of the Wallasey Pharmacists' Association, their friends and assistants, heard a lecture by Mr. John Cleworth, Manchester. The subject, *Faces and Places, as Seen by the Camera, at the British Pharmaceutical Conferences*, was profusely and beautifully illustrated by well over 100 lantern slides. The area covered by the lecture ranged from Aberdeen in the North to Isle of Wight in the South, and included most, if not all, the places visited by the Conference during the last seventeen years. Mr. H. S. Peirson proposed a vote of thanks to Mr. Cleworth.

Westminster Wisdom

By the "C. & D." Parliamentary Representative.

PARLIAMENT ADJOURNS

The House of Commons, on April 9, adjourned until April 23, when the Chancellor of the Exchequer hopes to make his Budget statement.

OPIMUM PRODUCTS

Colonel Day asked the Home Secretary, on April 7, how much opium was purchased by factories in Great Britain during the year 1924; how much morphia; how much heroin; how much codeine was manufactured by the manufacturers in Great Britain during 1924; and how much of each of these narcotics was sent abroad?

Sir W. Joynson-Hicks: The compilation of the statistics for 1924 is not yet completed, and I am able at the present moment to give only the figures of manufacture asked for, which must be regarded as provisional. They are as follows: Morphine, 99,400 oz.; heroin, 16,700 oz.; codeine, 153,300 oz.

FOOD PRESERVATIVES

Mr Hannon asked the Minister of Health, on April 7, whether he is aware that some misapprehension exists in the trades and industries affected by the proposed draft Regulations issued by the Ministry of Health in regard to preservatives in food; whether these Regulations are merely preliminary proposals; and whether an opportunity will be given to those concerned to submit their views before the Regulations are adopted in their final form?

Sir K. Wood: The Regulations at present published are in the form of a draft, and are subject to reconsideration and amendment in the light of representations received. Representations have already been received from a number of the trades concerned, and although the statutory period of forty days has expired, the Minister will be pleased to give an opportunity to others who may be interested to submit their views, provided that they do so without loss of time.

X-RAY APPARATUS

Dr. Little asked the President of the Board of Trade, on April 2, whether he is aware of the effect of the Safeguarding of Industries Act on x-ray workers in this country; that, in some cases, the actual tax which the consumer has to pay, owing to various accessory charges, may be as high as 60 per cent.; that apparatus which is not being manufactured in this country has this duty charged upon it; and whether, seeing that this makes it difficult for medical men practising x-ray treatment to have the best modern apparatus, he will consider the advisability of removing from the Schedule at any rate those types of apparatus which are not manufactured in this country by British firms?

Sir B. Chadwick replied that he was unable to conceive how the actual tax paid under the Safeguarding of Industries Act can possibly be at the rate suggested. He was aware that certain special types of x-ray apparatus are not at present produced in this country, but, having regard to the purpose of the Act in question, he was not prepared to introduce the legislation necessary to give effect to the hon. member's suggestion.

NITROGEN FIXATION

In reply to questions in the House of Commons, on April 7, the Chancellor of the Exchequer made the following statement regarding the sale of the Billingham factory for nitrogen fixation:—

The position was that on March 22, 1918, the Minister of Munitions received sanction to proceed with the erection of a factory at Billingham-on-Tees for the production on a large scale of nitrogen and hydrogen and for combining nitrogen and hydrogen so obtained for the production of ammonium nitrate to the ultimate extent of 60,000 tons per annum. Owing to the shortage of labour and of building materials not much progress had been made with the actual building of the factory at the Armistice. Consideration was given to the scheme as a post-war measure, but it was found that, owing to

information which had been obtained since the Armistice, particularly in respect of chemical works in the German occupied area, the original scheme, if proceeded with, would have to be much modified. The matter was submitted to the Cabinet in October 1919, with a recommendation that the property should be advertised for sale on the basis of the Government interests in the production of nitric acid for service explosives being safeguarded. On Cabinet approval being obtained, the property was extensively advertised in the London, provincial and technical Press. It was not stated in that advertisement that the information procured by the Government Commission to the German factory at Oppau would be included, but applicants were informed that further particulars would be supplied on application to the Ministry of Munitions. There were no suitable applicants other than Messrs. Brunner, Mond & Co. In the agreement with Messrs. Brunner, Mond & Co. there is a proviso by which the Government undertook, on completion of the purchase, to give all available information in its possession as to processes, etc., to the purchasers. The contract was signed on April 22, 1920, by the then Minister of Munitions, Lord Inverforth, and by two directors on behalf of Messrs. Brunner, Mond & Co. It is not in the public interest to disclose the terms of the agreement, nor was he prepared to depart from the usual practice of refusing to disclose the sale price of surplus Government property or stores. This rule has always been observed in view of the possibility of prejudicing the purchaser in the event of his wishing to resell. Having regard to the circumstances, the price was, in his opinion, a satisfactory one, and there appeared no probability whatever of obtaining such a price from any other source. The factory had neither been built nor equipped, but land had been acquired, roads made, and foundations laid, etc., and certain orders for plant, etc., given. The commitments for land, stores, plant, etc., amounted to approximately £1,000,000. The Commission was sent to Oppau and other chemical factories by the Ministry of Munitions. He cannot ascertain after this lapse of time what the cost was. It was not in the public interest to disclose who were members of the Commission, whose report (a confidential document) was received in February 1919. It was, as already stated, part of the contract that Messrs. Brunner, Mond & Co. should have access to the report and such other information as was available to the Government, and in this connection he referred the member to Article 172 of the Versailles Treaty.

IMPORTS OF ARSENIC

Captain Moreing asked the President of the Board of Trade, on April 6, what quantities of arsenic were imported into the United Kingdom from countries, other than Japan, during the month of December 1924 and the months of January and February 1925 respectively, giving the countries of origin?

Mr. Samuel: The following statement shows the quantities of arsenic and arsenic compounds imported into Great Britain and Northern Ireland, and registered as consigned from the countries named, during the months specified. The actual countries of origin, as distinguished from countries from whence goods are consigned, are not recorded in the trade returns of the United Kingdom:—

| Articles and Countries whence consigned | Dec., 1924 | Jan., 1925 | Feb., 1925 |
|---|------------|------------|------------|
| <i>Arsenic (Metal):</i> | lb. | lb. | lb. |
| Germany | — | — | 3,360 |
| <i>Arsenic, white:</i> | Tons | Tons | Tons |
| Belgium | 10 | 30 | 37 |
| France | — | — | 10 |
| Portugal | 60 | 120 | 66 |
| United States of America | 10 | 10 | — |
| Brazil | 28 | 27 | — |
| <i>Other Arsenic Compounds:</i> | | | |
| Netherlands | — | 1 | 3 |
| Belgium | 6 | 5 | 5 |
| France | 31 | — | — |
| Mexico | — | — | 5 |

The Greek Curriculum

By Dr. Em. J. Emmanuel

PROFESSOR OF PHARMACEUTICAL CHEMISTRY, UNIVERSITY OF ATHENS

THE pharmaceutical curriculum in Greece has recently been entirely remodelled, and now candidates are required to undergo a four years' course of study in the pharmacy section of the Faculty of Physical and Mathematical Sciences in the National University of Athens. This Faculty is divided into four sections: mathematics, physics, chemistry, and pharmacy, with eighteen ordinary, five extraordinary independent, and an unlimited number of extraordinary auxiliary chairs. Among the subjects for which ordinary chairs have been established are: theoretical and mathematical physics; physics (two chairs); inorganic chemistry; organic chemistry; pharmaceutical chemistry (including pharmacognosy and galenical pharmacy); botany and zoology. Attached to the Faculty are eleven laboratories, including laboratories for inorganic, organic and pharmaceutical chemistry, and one for botanical work; also a botanical garden and various collections. To be admitted to the University, pharmaceutical candidates, on completion of their education at a higher grade school, have to pass an entrance examination. The course of study embraces the following subjects:—First year: inorganic



chemistry, physics, zoology, and practical work in zoology. Second year: organic chemistry, mineralogy, inorganic pharmaceutical chemistry; practical work in mineralogy, physics, botany, and pharmaceutical chemistry, i.e., qualitative analysis, preparing inorganic and organic chemical compounds, and making galenical preparations. Third year: organic pharmaceutical chemistry, toxicology, first aid, bacteriology, hygiene, botany; practical work in toxicology, bacteriology, botany, and pharmaceutical chemistry, i.e., quantitative gravimetric and volumetric analysis. Fourth year: materia medica (pharmacognosy), pharmacy, chemistry of foods, and practical work in pharmacognosy, pharmaceutical chemistry (tests for medicinal chemicals and drugs), analysis of foods, industrial products, urine, detection of poisons. At the end of each year students are required to pass an examination before entering upon the next course. At the completion of the above four years' course of study, the candidates sit for an examination which is divided into three parts: (1) An oral examination in inorganic, organic and pharmaceutical chemistry, materia medica, pharmacy, and the chemistry of foods; (2) four written papers on analytical chemistry, inorganic and organic pharmaceutical chemistry, and pharmacy; (3) practical examination: prepare three medicinal compounds (inorganic, organic, galenical); analyse a drug or chemical; perform a urine analysis; test a food; detect a poison; carry out a qualitative analysis of a mixture. Having passed this examination, the candidate, now a "Licentiate of Pharmacy," has to serve a period of twelve months' apprenticeship in a pharmacy in a town of at least 5,000 inhabitants, at the conclusion of which he must present himself for the final examination before the Superior Council of Public Health in the Ministry of Health. The oral part of this examination is a test for knowledge in the following subjects: pharmacopœia, pharmacy, prescription work, pharmacodynamics, first aid and pharmaceutical legislation; in the practical part the candidate is required to analyse a medicinal agent,

prepare a galenical preparation, compound three prescriptions, and recognise a number of drugs. Success in both parts entitles the candidate to receive the diploma conferring the right to exercise the profession of pharmacist throughout Greece. At present there are about 500 students of pharmacy, including 80 women, immatriculated in the University of Athens. The degree of Doctor of Pharmacy is conferred upon licentiates of pharmacy on submitting a thesis embodying original work, one of the professors being appointed by the Dean to examine it and present his report to a meeting of the whole Faculty. The number of pharmacies in Greece is limited, inasmuch as it may not exceed a fixed ratio to the population; thus, in places with less than 20,000 inhabitants, not more than one pharmacy is allowed for every 2,000 souls, while in towns with more than 20,000 inhabitants, the permissible limit is one pharmacy for 2,500 souls. There are no drug stores in Greece.

Proprietary Articles Trade Association

THE quarterly meeting of the Council of the P.A.T.A. was held at the Hotel Russell, London, W.C., on April 8, Mr. A. R. Keith (President) in the chair. There were present Messrs. G. R. Barclay, W. C. Birks, W. L. Edwards, F. J. Smith, A. T. Webb, P. F. Rowsell, F. R. Moore, C. H. Ratcliffe, H. H. Marshall, T. Marns, F. A. Lawman, E. Pickering, W. H. Saunders, A. Higgs, J. Keall, H. M. Read, F. A. Powell, J. A. South, A. Ridout, J. B. Francis, R. Feaver Clarke, J. Milner, F. R. L. Newbery, A. Bond Hickisson, Fage Woodcock, S. N. Pickard, S. Watson, Dr. A. J. Barnes, Dr. J. J. Pilley, and Dr. G. Coull.

Before the commencement of business the President referred to the absence of the secretary, Sir William Glyn-Jones, who was visiting Canada on the invitation of representative drug trade interests in the Dominion. The Council resolved unanimously that a cable conveying the greetings of the Council and their good wishes be sent to the secretary.

The Executive Committee's report contained the following paragraph:—

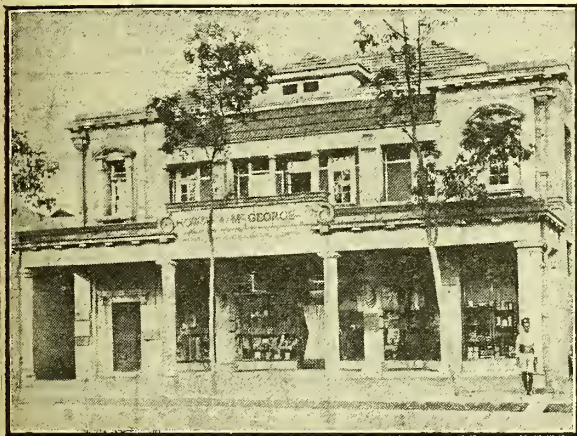
The Retail Section and the Committee have considered the details of a scheme put forward by Mr. Bond Hickisson, for the organisation of a window-dressing competition in connection with articles which are on the Protected List. The scheme involves the institution of a Prize Fund, to which members of the Manufacturers' Section would be invited to subscribe, and restricts entry for the competition to members of the Retail Section of the P.A.T.A. The working of a similar scheme organised by the Stationers' Association has been fully explained to the Retail Section by Mr. Bond Hickisson, and by Mr. Marsh, Secretary of that Association, and to these gentlemen the Section expressed their appreciation of their kindness and courtesy in expounding the plan. The Retail Section are of opinion that the subject requires very careful consideration, and recommend that discussion and decision be deferred to the next quarterly meeting. With this recommendation the Executive Committee are in agreement.

MERCURY PRODUCTION IN RUSSIA.—The erection of a new Russian mercury factory is reported from Nikitowka. The Nikitowka deposits are the only ones in Soviet Russia, but are among the richest in the world, and have remained unexploited since the outbreak of the war. The excess of mercury produced over that required for the needs of the home market will be sent to London and Hamburg.—"The Chemical Trade Journal."

SYNTHETIC CAMPHOR.—During the fiscal year ended June 30, 1924, the United States imported 460,734 lb. synthetic camphor, valued at \$276,509, compared with 293,933 lb., valued at \$182,494 in the previous year. The bulk of this is consumed by the American celluloid makers and imported from Germany. Up to the present Japan appears to ignore this competition, as it is only about one-tenth of the total imports of camphor into the United States.

Pharmacy in Kenya Colony

PHARMACY in Kenya Colony, although limited by reason of the small European population, is well represented, and the following notes on the firms representing the drug trade may prove of interest. The oldest established European firm of chemists and druggists is that of A. H. Wardle & Co., Ltd., Nairobi and Mombasa. This firm was established by Mr. A. H. Wardle in 1908, who subsequently retired from active management in 1912,



HOWSE & McGEORGE'S PHARMACY

when Mr. Harper took over. He was followed by Mr. A. A. White, who again was succeeded by the present managing director, Mr. A. H. Smith, in 1918. The English Pharmacy was the Pioneer Pharmacy, but was gutted by fire a few years ago and never reopened.

Howse & McGeorge, Ltd., established themselves in Nairobi at the close of 1911, and in 1913 opened the first pharmacy in the adjoining protectorate of Uganda at Kampala. They have now opened another branch at Jinja in the same territory, while they have branches at Nakuru and Eldoret in Kenya Colony. There is a certain romance in the fact that both Mr. L. A. Howse and Mr. R. McGeorge should meet in Nairobi, arriving about the same time unbeknown to one another. Mr. Howse came from England and definitely made up his mind to try his luck in foreign parts. Mr. McGeorge came from the Transvaal, whence he had journeyed through Rhodesia to the Belgian Congo and back again and then to Uganda, seeking pastures new. Their association has proved a singularly happy combination, and has largely assisted in the building up of their extensive business, under very adverse circumstances at times. Mr. Howse is a man of affairs other than pharmaceutical, and at one time was a member of the Legislature, and also the Committee of the Associated Chambers of Commerce of these territories and the Licensing Board. He also represents the chemists and druggists on the Poisons and Pharmacy Board, together with Mr. A. A. White. Mr. McGeorge was at one time secretary of the Pharmaceutical Society of the Transvaal, and from 1914 to the end of 1918 was with the forces in the East African campaign, attaining the rank of captain in the E.A. Medical Service.

Mr. A. A. White, who is perhaps the longest resident chemist in these parts, joined the staff of Wardle & Co. at Mombasa in 1911, and is now managing director of A. J. Ely, Ltd., Mr. White's own business and that of Ely's having amalgamated. Besides these European chemists there are a few Goanese chemists, and, of course, all the general stores throughout the country handle chemists' packed goods and toilet articles in some form or other, catering either for the European, Indian or native.

Chemists in these parts are all to some extent dependent on one another for "temporary out of stocks." London being the nearest depôt, and even a "cabled-for want" is at least five or six weeks in arriving if by

parcel post, and probably three months if heavy goods. Indenting becomes quite a science in scheming out the requirements of six months ahead.

The nature of the dispensing is of a high order. What the writer intends to convey is that Kenya Colony is known as the public schoolboys' colony, and gives a *clientèle* which a chemist in Oxford Street, London, or Princes Street, Edinburgh, might envy. It is amusing and sometimes annoying to have a West End or other quite as local prescription handed in for dispensing, the prescription being a speciality of the locality.

Transport difficulties readers will hardly realise, unless those who have been in the Colonies have experience. Kampala in Uganda is four hundred miles from Nairobi, two hundred miles of which is traversed by steamer across Lake Victoria Nyanza. Needless to say, trains do not run every day, nor steamers more frequently than about once a week. Eldoret, which is slowly being linked up by a new railway, until recently was marooned during the rains, and wagons with goods took three weeks at times, ploughing through mud from the nearest station sixty miles away. It is interesting to note that Howse & McGeorge, Ltd., operate in both hemispheres—Nairobi in the southern and Eldoret in the northern hemisphere—and Jinja, their latest branch, is directly under the Equator on the Ripon Falls, one of the sources of the Nile. Although geographically Nairobi is so near the Equator, its high altitude saves it from the oppressive heat in the lower-lying parts round the coast. Indeed, the climate of the Highlands generally has been described, and deservedly so, as almost ideal. Perpetual sunshine during the day and cool and sometimes distinctly cold nights. In the early days most buildings were made of wood and iron, both business and residential premises.

Some really fine buildings have recently been erected, one of the later being those of Howse & McGeorge, Ltd., an illustration of which we give. The interior fittings are carried out in Msharagi, a native wood of very fine appearance. These are the only premises the fittings of which are carried out in this style, and it is quite a usual thing for visitors to be brought in and shown what the country can produce in the way of timber. Hours of business are not long, being 8 a.m. to 5 p.m., and 1 p.m. on Saturdays, and two hours on Sundays and public holidays. These are the hours which are tacitly



INTERIOR OF HOWSE & McGEORGE'S PHARMACY

observed, but it is hoped that shortly they will become legal under a Shop Hours Act.

On the social side, Nairobi and the bigger up-country towns are well supplied with clubs (social and sports), covering all classes of the community. In common with all other parts of the world, Kenya experienced the full force of the slump from 1920. To-day there is every indication that the recovery is complete, and there is a universal atmosphere of optimism allied with a great determination to prove that this, the youngest of our colonies, is one of the Empire's most valuable assets.

Gases in Warfare

AN editorial article in THE CHEMIST AND DRUGGIST of 1918 (p. 372) gave a list of poisonous gases used in warfare, from the chlorine introduced by the Germans in 1915 to the complex substances tried in later stages of the war. The publication of the accompanying table in the second volume of "Diseases of the War," which forms part of the series known as "War Medical Services," issued under the editorship of Major-General Sir W. G. Macpherson, enables us to supplement in some particulars the information previously given. The division into five groups adopted for the purposes of the book is an arbitrary one; but if it satisfies medical requirements, it

bility of man in respect of hydrocyanic acid vapour is recorded at some length. In another chapter of the volume, some significant figures relating to gas production are given. When the British began making warfare gas, there was only one plant for liquid chlorine in this country, with a maximum output of one ton a day. By the end of 1915 Great Britain had produced 860 tons. In 1916 the output of gases was 5,150 tons; in 1917, it was 18,500 tons; and in the first ten months of 1918 the production amounted to 15,500 tons. About half these quantities represented chlorine, the remainder being phosgene, chloropicrin, and lachrymatory substances. In 1917 Germany was making at the rate of 2,000 tons of gas for shell filling and 1,000 tons of chlorine a month. There

| | Substance | Date of introduction | Boiling point (C.) | Approximate concentration to incapacitate in a few seconds owing to Lachrymation or Pain (coughing) | Approximate concentration to cause, if breathed for more than 1 or 2 minutes, definite Bronchial or Pulmonary Lesions | Used by— B=British; F=French; G=Germans; A=Austrians |
|----------------------|---|----------------------|--------------------|---|---|--|
| Acute Lung Irritants | Chlorine, Cl ₂ | 1915 | -33.6 | 1:10,000 | >1:10,000 | B.F.G. |
| | Phosgene, COCl ₂ | 1915 | +8 | 1:100,000 | 1:50,000 | B.F.G. |
| | Chloromethyl chloroformate ("Palite," French), ClCOO.CH ₂ Cl | 1915 | +105 | 1:100,000 | 1:10,000 | F.G. |
| | Trichloromethyl chloroformate ("Diphosgene," British; "Surpalite," French), ClCOO.CCl ₃ | 1916 | +128 | 1:200,000 | 1:50,000 | F.G. |
| | Chloropicrin, CCl ₃ .NO ₂ | 1916 | +112 | 1:200,000 | 1:50,000 (cumulative) | B.F.G. |
| | Stannic chloride, SnCl ₄ | 1916 | +114 | — | 1:10,000 | B. |
| | Phenyl-carbylamine chloride, C ₆ H ₅ .N:CCl ₂ | 1917 | +209 | 1:200,000 | 1:10,000 | G. |
| | Cyanogen bromide, CNBr | 1918 | +61.3 (m.p. 52) | — | 1:30,000 | A. |
| | Dichlor-methyl ether, (CH ₂ Cl) ₂ :O | 1918 | +105 | 1:10,000 | 1:10,000 | G. |
| | Benzyl bromide, C ₆ H ₅ .CH ₂ .Br | 1915 | +198 | 1:2,000,000 | — | G. |
| Lachrymators | Xylyl bromide, C ₆ H ₃ .C ₆ H ₄ .CH ₂ .Br | 1915 | +216-220 | 1:2,000,000 | — | G. |
| | Ethyl-iodoacetate, CH ₃ I.COOC ₂ H ₅ | 1916 | +180 | { 1:2,000,000 to } 1:5,000,000 | 1:50,000 | B. |
| | Bromacetone, CH ₃ .CO.CH ₂ .Br | 1916 | >+136 (decomp.) | 1:2,000,000 | >1:10,000 | F.A. |
| | Monobrom-methyl-ethyl-ketone, CH ₃ Br.CO.CH ₂ .CH ₃ or CH ₃ .CO.CHBr.CH ₂ .CH ₃ | 1916 | +145 | 1:500,000 | >1:5,000 | G.A. |
| | Dibrom-methyl-ethyl-ketone, CH ₃ .CO.CHBr.CH ₂ .CH ₂ .Br | 1916 | >+53 (decomp.) | — | — | — |
| | Acrolein, CH ₂ .CH.CHO | 1916 | +52 | — | — | F. |
| | Methyl-chlorosulphonate, SO ₂ < OCH ₃ / Cl | 1915 | +132 | — | — | G. |
| | Hydrocyanic acid, HCN | 1916 | +26.5 | >1:2,000 (immediately fatal) | Practically no cumulative action | B.F. |
| | Sulphuretted hydrogen, H ₂ S | 1916 | -61.8 | 1:1,000 (immediately fatal) | 1:10,000 (affects eyes and lungs) | B. |
| | Diphenyl-chlorarsine, (C ₆ H ₅) ₂ AsCl | 1917 | +333 (m.p. 43) | >1:10,000,000 | — | — |
| Sternutators | Diphenyl-cyanarsine, (C ₆ H ₅) ₂ AsCN | 1918 | >+300 (m.p. 31) | — | 1:50,000 | G. |
| | Ethyl-dichlor-arsine, C ₂ H ₅ .AsCl ₂ | 1918 | +156 | 1:500,000 | 1:20,000 | G. |
| | Ethyl-dibrom-arsine, C ₂ H ₅ .AsBr ₂ | 1918 | — | — | — | G. |
| | N. ethyl carbazol, (C ₆ H ₄) ₂ N.C ₂ H ₅ | 1918 | >+190 (m.p. 68) | — | — | G. |
| Vesicant | Dichlor-ethyl-sulphide (Thiodiglycol-chloride; "Mustard Gas," British; "Yperite," French), (CH ₂ ClCH ₂) ₂ S | 1917 | +217 (m.p. 13) | — | 1:1,000,000 with 60 min. exposure | B.F. G.A. |

is probably as convenient as any other. A second table is devoted to the contents of gas shells: these, however, proved to be, practically without exception, mixtures of those in the first table. A few of the observations recorded may be briefly summarised. The figures for toxicity are not to be regarded as a direct criterion of effects in warfare conditions. To all intents and purposes, the only gases used in a cloud gas attack fell within the category of acute lung irritants. The toxicity of hydrocyanic acid, it appears, "was much over-estimated in the early part of the war, but it was one of the few poisonous substances that the British could easily produce in quantity owing to the pre-war development of the cyanide industry." An experiment made by an investigator with a view of gaining some idea of the suscepti-

was not very much information available before the war regarding the toxicology of these and other poisonous gases. The work of Lehmann, Victor Meyer, Haldane and others, however, is referred to in a bibliography. It should be explained that the table is slightly fuller in its original form than in our adaptation. The history of the various forms of respirator, from the first moist pad to the box, occupies several pages, and we are reminded that horses were eventually supplied with something corresponding to the latest Army pattern. A curious detail is that, in making the early alkaline hyposulphite solution, caustic soda was in one instance used in mistake for sodium carbonate. The name of the late Lieutenant-Colonel E. F. Harrison receives a passing mention in the volume.

Modern Physico-Chemistry in its Pharmaceutical Applications

By W. A. Whatmough

VIII.—The Flow of Fluids—Part II

THE rotating cam of Fig. 7 in the previous article makes a pulsation each time it pushes the piston forward. These pulsations are transmitted through the almost incompressible medium to every part of the vessel. Actually, the water is compressed a little and the vessel expands slightly, so that a compression wave (of alternate expansion and contraction) passes along the vessel until water escapes by lifting the ball from its seat on the nozzle, which thus acts as a relief valve. (The cam could not rotate unless something "gave way.") Pulses can be transmitted long distances and in any direction. Constantinesco's system of power transmission used in mining consists of hammer-like blows on water transmitted through flexibly jointed steel tubes filled with water, each blow being faithfully reproduced at a vibrating tool such as a rock drill, which may be a long distance away. As the rate of rotation of the cam in Fig. 7 increases, the blows on the piston rod (which likewise affect the water and the vessel) are heard at first as separate knocks, but later merge into a distinct note of higher and higher pitch, until finally it becomes less and less audible as the limit of sensitivity of the human ear is exceeded. Thus once again human receiving apparatus breaks down; but whereas the eye failed with frequencies of hundreds or jerks per second, it requires tens of thousands of pulses per second before the ear becomes insensitive. Nevertheless our nerve-endings are stimulated by heat and light pulses with

the ratio of sound waves in steel and water), makes it clear why the number of slow-moving pulses is equal to the fast-moving ones, because they are closer together. Between A to A', eight pulses pass in a certain time interval to impinge at A'. In the same period the pulses from B to B' strike the end wall; but the number is again eight, owing to the smaller spacing. At C' eight impacts arrive, but travel at different speeds during part of their journey from C to C'. The last phenomenon is of critical importance because, though frequency is constant, the wave-length varies with the medium traversed, and hence radiant energy may travel at varying speeds without changing the characteristic frequency corresponding to a definite "temperature." Thus it is possible to have constant time intervals with varying velocity of light pulses in space.

PULSATION

The power pulses transmitted through water have much in common with the ethereal pulses constituting a ray of light. By reducing the piston area to small dimensions, the cam would eject only a small volume of water at each revolution; and the succession of blows would set up a definite stream of water between the piston and the point where water escapes, because each forward pulse makes room for the next in succession, and in consequence sets up a line of least resistance.

The elliptical orbit of an electron rotating in ether would appear to simulate the action of the cam in sending out a stream of ethereal pulses. Just as the projection of the cam is the cause of the pulse (by hitting the piston rod returned by the spring), similarly the eccentricity of the electron orbit acting on "elastic" ether is necessary for production of the pulses constituting a light ray, because circular electron orbits do not radiate energy. Each forward pulse corresponds to the completion of an elliptical orbit, or of one revolution of the cam, so that pulse frequencies are all-important as counting rate of revolution both of the electron and of the cam. It is extremely likely that spectral lines correspond to pulse frequencies of mobile electrons; the yellow "D" lines of solar sodium (after travelling 90,000,000 miles) have frequencies practically identical with the bright lines of the flame spectrum of terrestrial sodium atoms; the former, however, being the dark lines of absorption spectra. This relationship between spectral lines and orbital movements of electrons provide a definite means of computing changes in the electronic configuration of atoms consequent upon physico-chemical energy changes—i.e., the alteration may result in change which may be either physical or chemical. The loss or gain of an electron is always a chemical change, but physico-chemistry recognises "activated" states preceding and leading to chemical change. Thus new terms, such as threshold effect, resonance potential and ionisation potential are coming into use to denote the amount of energy required to change a neutral or stable atom into an activated condition or into an ionised atom or molecule.

For example, electrons are ejected from metal surfaces by bombardment with light rays, the minimum frequency which will effect this being known as the "threshold" value; this is less the more easily an atom can lose an electron. Thus the alkali metals (sodium, calcium, etc.), which are easily "ionised," are distinctly affected by sunlight. These "photo-electric effects" are decidedly selective—i.e., the frequency of the incident light, and not the total amount of energy therein, controls whether electrons are emitted or not. Thus weak ultra-violet illumination will eject electrons, whereas strong radiation with red heat-rays will fail because the latter do not exceed the "threshold" frequency. One of the successes of the quantum theory is that it postulates larger quanta (or discrete bundles of energy) with increasing frequency of radiation, and thus gives an explanation of the photo-electric effect. The latter, along with other phenomena, is leading to abandonment of the older or classical view of the gradual diminution of energy inversely as the square of the distance from its source. By regarding the ether as being capable of fluid flow and effecting the atom with its electrons (particulate matter) by its motion, it is possible to find many parallels to the phenomena which are upsetting conventional science.

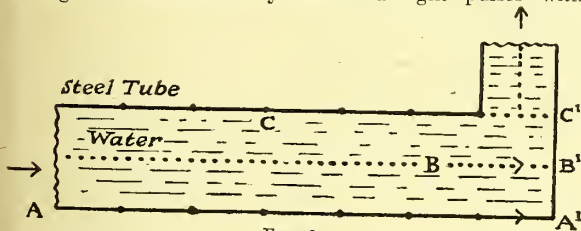


FIG. 8.

The broken end lines indicate that the steel tube filled with water for transmission of power pulsations may be of any length, while the corner indicates that pulses are transmitted in any direction.

frequencies of 10^{12} to 10^{14} , or millions of millions, per second. By regarding each pulse as a point in time, their close succession in a light ray is a striking representation of the genesis of a mathematical (time) line (cf. Article VI), of which more anon. The rate of propagation of the pulses varies according to the medium; thus, the waves of compression travel four times as fast through the steel tube as through the water. The steel is said to be more elastic than the water because its compressibility is less; and though this definition of elasticity is just the opposite to that of popular usage, scientifically it agrees with the fact that vibrations and oscillations are due to constraints and are the more rapid the greater the resistance to bending and stretching. The ether of space would appear to be incompressible from the ease and rapidity with which it transmits pulses of radiant heat, which also brings out the fact that ease of displacement of fluids does not signify low elasticity. Note, however, that ether pulses of all frequencies are inaudible.

Returning to the pulses produced by the cam, the sound of the blow arrives at the nozzle via the metal before that transmitted through the water; but once a pulse has arrived through the water, further pulses through steel and water synchronise so long as there is a regular succession of blows. Each cam speed corresponds to equally spaced intervals (or time periods) between pulses; and though the velocity of transmission through the metal is greater, the distance between successive pulses (or wave-length) is greater. Fig. 8, with two spacings of pulses (of 4 to 1, which is approximately

Pharmaceutical Society of Ireland

Council Meeting

THE monthly meeting of the Council of the Pharmaceutical Society of Ireland was held at 67 Lower Mount Street, Dublin, on April 14, Mr. Richard Blair (President) in the chair. The following members of the Council were present:—Mr. G. A. M'Lean Lee (vice-president), Mr. D. M. Watson (hon. treasurer), Dr. J. A. Walsh, Dr. Michael Ryan, Messrs. John Smith, T. Fred Storey, John E. Connor, J.P., F. J. Fitzpatrick, P. Brooke Kelly, and R. E. Campbell.

APPOINTMENT OF EXAMINER

A communication was received from the Department of Justice acknowledging notification of the appointment of Mr. Thomas J. Smith, M.P.S.I., of No. 1 Old Cabra Road, Dublin, as an examiner in practical pharmacy. The Minister signified approval of the appointment.

ELECTION AND NOMINATIONS

Miss Ellen B. Young, Ph.C., Beggs Medical Hall, Railway Road, Dalkey, Dublin, was elected a member of the Society. Mr. J. H. Cronhelm, Ph.C., 36 Fitzwilliam Street, Belfast, and Mr. Murtagh C. O'Leary, L.P.S.I., The Medical Hall, Boyle, were nominated for membership.

PRELIMINARY REGISTRATION

The following submitted certificates from other bodies, and were admitted to preliminary registration:—Messrs. A. H. Devlin, A. T. Gowans, P. S. Lalor, J. P. Millar, and P. Whelan.

REPORTS

Reports were received and adopted from the Law, Certificates, Declarations, House, and School Committees. The New Zealand Board of Pharmacy wrote acknowledging greetings, and recalling the fact that they place upon the Register the name of any chemist who has passed the Irish examination.

BRUSSELS CONFERENCE

The Department of Local Government and Public Health wrote forwarding a copy of a circular from M. Goor, the Belgian Consul-General, with reference to the Conference in Brussels of international delegates in September for the unification of the formula of certain medicinal prescriptions; and inquiring if the Society would send a representative to the Conference. Several countries, including Great Britain, the United States of America, Germany, etc., have notified their intention of being represented on this occasion.

Dr. J. A. WALSH said he understood that the Government was very anxious that there should be somebody at the Conference to represent the Free State, and it was thought best to apply to that Society for someone who would adequately represent them. They ought to name a very good man who would be able to attend the Conference.

The HON. TREASURER said there was a matter of very great importance on the agenda for the Conference, namely, the question of an international secretariat.

On the motion of Mr. Jn. Smith, seconded by Dr. J. A. Walsh, Mr. P. Brooke Kelly was appointed delegate, and the registrar was directed to inform the Minister of the appointment.

CHANGE OF ADDRESS

Miss A. M. Cullen, M.P.S.I., wrote notifying change in her address to the Modern Pharmacy, Letterkenny.

EXAMINATIONS—APRIL 1925

The registrar (Mr. Arthur T. Ferrall) reported under date April 8, 1925:—"The Preliminary examination was held on April 2 and 3. Sixty-nine candidates (twelve of whom were for re-examination) presented themselves. The Pharmaceutical Licence examination is at present being held. Thirty-four candidates (eighteen of whom are for re-examination) have presented themselves. The

Pharmaceutical Assistant examination takes place on April 11. Five candidates have applied for admission. The Registered Druggist examination at Dublin is to be held on April 14. Seven candidates (one of whom is for re-examination) have applied for admission. Eight candidates have applied for examination at Belfast."

Examination Results

PHARMACEUTICAL LICENCE EXAMINATION.—The following are the results of the recent examinations:—Cornelius David Foley, Dublin; Thomas Michael Walsh, Dublin; Richard Carney, Ballaghaderreen; Frances Annette Bracken, Dublin; James Corr, Dublin; Robert Couse, Kilkenny; Catherine Eva Hartigan, Kilmallock; Thomas Herbert O'Reilly Carney, Maynooth; Patrick Joseph O'Farrell, Dublin; John Gleeson, Fedamore, co. Limerick; Victor Simpson, Belfast; David Gibson, Jordanstown, co. Antrim; Eric Wm. Massey, Carlow; Michael Hugh Glynn, Sligo. Twenty candidates were rejected.

PHARMACEUTICAL ASSISTANT EXAMINATION.—Percy Fenton, Kilkenny; James Montgomery Ovens, Enniskillen; Daniel Donovan, Newcastle West. Three candidates were rejected.

Recent Patents

Abstracts of specifications of recently-granted patents for inventions. The complete specification (1s. each including postage) of any British patent can be obtained from the Patent Office, 25 Southampton Buildings, London, W.C.2, on quoting the name of the patentee and the number of the patent.

Fertiliser and Insecticide.—A mixture of wood ash, soot, slaked lime, sulphur and Diesel oil. (C. Illingworth and H. H. Duckworth. 230,148.)

Insecticides.—A preparation for the extermination of moths and similar insects, consisting in an alkaloidal extract of lupin seeds in combination with extract of quillaia bark. (W. Schmitz. 230,203.)

Hydrocyanic Acid Carrier.—Activated charcoal, or silica gel, is charged with hydrocyanic acid, the resulting product being stable and free from danger during storage or transport. (Deutsche Gold- und Silber-Scheideanstalt and O. Liebknecht. 230,346.)

Nerolidol.—A process for the manufacture of *d,l.*-nerolidol, consisting in condensing α,β -dihydro-pseudo-ionone with acetylene, and reduction of the resulting compound. The product is a colourless liquid, with a faint odour of flowers, which on oxidation with chromic acid yields farnesal. (M. Naef & Co. 213,250.)

Mercurial Phenols.—A process for producing alkali salts of mercurial phenols, for the destruction of bacteria and for treating seeds, consisting in treating cresol with caustic soda, and adding to the solution freshly precipitated mercuric oxide. The solution is evaporated to dryness, yielding a salt with a content of 17.5 per cent. of mercury. (A. Klages and Saccharin-Fabrik A.G. vorm. Fahlberg, List & Co. 228,595.)

Synthesis of Methanol.—A mixture of carbon monoxide, or dioxide, and hydrogen is passed at a temperature of about 300° C. over a contact mass consisting of mixtures of oxides, hydroxides or carbonates of chromium, manganese, molybdenum, titanium, cerium, copper, vanadium, uranium and silver, whereby up to 50 per cent. of the carbon monoxide is converted into methanol. (Badische Anilin & Soda Fabrik. 229,715.)

FRANCE

Benzoic Acid.—A process for the manufacture of benzoic acid, consisting in oxidising benzaldehyde by a current of air in the presence of sodium carbonate and a catalyst. (G. Blanc. B.F. 586,383.)

Piperazyl Theobromine.—A halogen derivative of theobromine is made to react with piperazin hydrate in aqueous solution; the resulting base crystallises out in white needles, melting at 247° C. (E. Viel. B.F. 584,735.)

Births

Notices for insertion in this column must be properly authenticated.

SPEIGHT.—At Mountjoy Nursing Home, Huddersfield, on April 8, the wife of Cyril E. Speight, M.P.S., of a son.

Marriages

MILES DAVIES—JONES.—At Shirland Road C.M. Church, London, W., on April 7, Iorwerth Miles Davies, M.P.S., Lampeter, to Jane Jones, Erconwald Street, Shepherd's Bush.

Deaths

BANA.—At Navsari, near Bombay, India, recently, Mr. R. H. Bana, wholesale soap manufacturer and perfumer. The late Mr. Bana had been a subscriber to the *C. & D.* since 1876, when he established his business, which was the first of its kind in India, in the city of Navsari.

BATES.—At 45 Henrietta Street, Old Trafford, Manchester, on April 1, suddenly, Mr. John Bates, chemist and druggist. Mr. Bates qualified in 1889.

BOAKE.—At Highstanding, Loughton, on April 12, Mr. Arthur Boake, chairman of A. Boake, Roberts & Co., Ltd., manufacturing chemists, Carpenter's Road, Stratford, London, E.15, aged eighty-one. Mr. Boake founded the business in 1869, and until recently was actively associated with it. His death will be a great loss to a large circle of friends.

CRITCHLEY.—At the Royal Infirmary, Liverpool, on April 6, Mr. William Edwin Critchley, M.B.E., chemist and druggist, 121 Granby Street, aged thirty-nine. Mr. Critchley was an assistant in Liverpool when the European war broke out; he joined the R.A.S.C. (M.T.), and after passing the requisite driving tests, was sent out to the East, where he remained until January 1920. While in Egypt, in 1917, he took a course of instruction in an officers' infantry school, qualifying as a technical officer in the Royal Air Force. In the latter capacity he served in Egypt, the Balkans, Russia, and Turkey. Shortly after



MR. W. E. CRITCHLEY, M.B.E.

was made a Member of the Order of the British Empire. He passed the Qualifying examination of the Pharmaceutical Society in 1922, and then acquired the business in Granby Street previously carried on by Mr. Richard E. Parry, chemist and druggist.

GRAHAM.—Recently, Mr. Christopher Bulman Graham, chemist and druggist, branch manager, at Portland Pharmacy, Creswell, to Mr. E. J. Latham, chemist and druggist, Shirebrook, aged forty-seven. Interred at Creswell.

SHORROCK.—At Darwen, on April 9, the widow of the late Mr. Ralph Shorrocks, J.P., chemist and druggist, aged eighty-two.

WALKLETT.—At 26 Park End Street, Oxford, on April 5, Mr. George James Walklett, chemist and druggist, aged sixty-two. Mr. Walklett carried on business in Oxford for a long period, winning the esteem of a wide circle by his courtesy and geniality. The interment took place in St. Thomas's Churchyard on April 9.

WAUGH.—At Chigwell, on April 7, suddenly, Mr. Walter Waugh (Walter Waugh & Co., Ltd., chemical merchants, 4 Lloyd's Avenue, London, E.C.), aged sixty-three.

PEAKE.—At Earlstown, on April 3, Mr. Arthur Peake, J.P., retired chemist and druggist, aged seventy-six. Mr. Peake, who was a native of Lichfield, served his apprenticeship at Stalybridge, and gained further experience as assistant with the father of the late Mr. J. Rymer Young, Ph.C., Warrington. He qualified in 1871, and commenced business in Earlstown three years later, eventually becoming closely identified with the public life of his town and with pharmaceutical organisation. His services in connection with the working of the first National Health Insurance Act were recognised in 1916, when at a meeting of Lancashire chemists held at Preston he was presented with a silver tea-and-coffee service. Mr. Peake retired two years ago in favour of his son, Mr. A. P. Peake, Ph.C. Last February he fell downstairs and sustained a fracture, from which he never recovered.



MR. A. PEAKE, J.P.

WHISTON.—At 28 Wellington Road, Edgbaston, recently, Mr. Frederic William Whiston, chemist and druggist, aged ninety-five. Mr. Whiston carried on business at the corner of Vittoria Street and Warstone Lane, Birmingham, from early manhood till his retirement twelve years ago.

Wills

MR. JOHN LORIMER, chemist and druggist, Thringarth, Egmont Road, Sutton, Surrey, who died on January 24, left estate valued at £332 15s. 2d. Probate has been granted to his son Arthur R. Lorimer, 2 Chesterfield Mansions, South Grove, Highgate, London, N.

MR. ROBERT WRIGHT MACADAM, J.P., Bielside, Westbarns, Dunbar, N.B., and Lothian House, Bermondsey, London, S.E., of the British Malt Products Co., Ltd., who died on December 10, left personal estate in Great Britain valued for probate at £59,463 16s. 2d., of which his interest in British Malt Products Co., Ltd., amounts to £31,681.

B.P. Notes

By "Abel Scholar."

What is Talc?

Talc made its appearance in the B.P. of 1898, and was described as a natural magnesium silicate powdered and purified by boiling with diluted hydrochloric acid, washing and drying. Miller says it is a very soft, slaty mineral, which has a chemical formula $4 \text{MgO} \cdot 5 \text{SiO}_2$, and distinguished it from steatite, French chalk or soapstone, which is $3 \text{MgO} \cdot 4 \text{SiO}_2$. Attfield says mica, or talc, consists chiefly of silicates of aluminium, iron, magnesium and potassium, and French chalk, steatite or soapstone is largely silicate of magnesium. Squire says talc is a hydrated magnesium silicate, and that it is official in many pharmacopœias. In the tests he shows that aluminium is also present, which means that it is something more than what he says it is. As a filtering medium it possesses but little advantage over Kaolin, and neither is so good as the white diatomaceous siliceous substance known in commerce under various fanciful names, foreign and otherwise.

MR. F. J. MURPHY is now representing Matthews & Wilson, Ltd., 6 and 8 Cole Street, Borough, London, S.E.1, in N.W., W., W.C. and S.W. London, the Thames Valley, Essex, Suffolk, Norfolk, Cambridgeshire and Lincolnshire.

Trade Notes

GENOXIDE is a brand name which B. Laporte, Ltd., Luton, are applying to hydrogen peroxide of special quality, produced by a new process. It is intended to advertise the article to the public.

CRÈME MARIMON.—Eugène Rimmel, Ltd., 1A Darnley Road, London, E.9, refer in their advertisement to an advertising campaign which is being conducted in connection with Crème Marimon. Special display terms can be had on application.

HALEX TOOTH-BRUSHES.—The British Xylonite Co., Ltd., Hale End, London, E.4, announce that a new advertising campaign is commencing in connection with the Halex tooth-brushes. A special offer of an introductory parcel is made in the company's advertisement in this issue.

ESS VIOTTO SOAP.—H. Bromley & Co., Ltd., Acton Vale, London, W.3, give particulars of a gift scheme which is to be advertised to the public during May. This has some interesting new features, which are explained in the particulars which Messrs. Bromley will send on application.

ENO'S FRUIT SALT.—The illustration shows the supply of "Fruit Salt" supplied by J. C. Eno, Ltd., in the



ordinary course of business to H.M.S. "Repulse," which recently left Portsmouth with H.R.H. the Prince of Wales on his tour of Africa and South America.

CALIFORNIAN ORANGE OIL.—Wheeler & Huisking, Ltd., 26 and 27 Great Tower Street, London, E.C.3, have been appointed European distributors of the well-known sweet orange oil manufactured by the Exchange Orange Products Co., San Dimas, California. This oil has already had a favourable reception on the European market, as prices and quality bear comparison with orange oils from other sources.

VELT.—We mentioned recently that Whitaker & Co., Kendal, were placing on the market a liquid cleaning agent under the name of Velt. We have now received sample packages of this. Velt is a clear liquid packed in screw cap tins and is non-inflammable. It is used for cleaning all kinds of fabric and removing grease, tar and paint. Velt is entirely volatilised after use and leaves no unpleasant smell behind. The outer package forms a counter display box.

ACELTA CAPPING MACHINE.—Acelta Capping Co., Ltd., 185 Princess Street, Manchester, the makers of Acelta bottle capping, have introduced a machine for capping bottles with Acelta solution. This machine, which is figured in the company's advertisement, is calculated to facilitate the use of Acelta by carrying out the operation in the shortest time (a thousand bottles an hour can be capped), and at the same time obtaining the best results. A descriptive pamphlet will be sent on application.

Food Exhibition

AMONG the exhibits at the Nations' Food Exhibition, which is being held at Olympia, London, W., from April 11 to May 25, are a number of lines in frequent demand in pharmacies. The needs of infants and invalids are catered for by a large number of exhibitors; mention must be made of the stands of Allinson, Ltd., Brüsson Jeune & Co. (gluten bread), Food Products, Ltd. (Bovolactin), Horlick's Malted Milk Co., Montgomerie & Co., Ltd. (Berina infant food and malted milk), Nestlé and Anglo-Swiss Condensed Milk Co., Prideaux's Pure Casein and Life Food Co., Ltd. (Dorsella milk food), the Therapeutic Foods Co., Ltd. (Energen foods), Thew, Hooker & Gilbey, Ltd. (malted milk), Trufood, Ltd. (dried milk), and Virol, Ltd. Glass containers suitable for food products are displayed at the stands of Mr. E. Duncan Doring, Jules Lang & Son, and United Glass Bottle Manufacturers, Ltd. The Cellophane Co. indicate the advantages to be gained by the use of their wrapping material, and Crowther & Co. have on view a good range of wrapping and packing papers. The benefits to be derived by dyeing materials at home are ably advocated by the representatives of William Edge & Sons, Ltd. (Drummer and Mannequin dyes) and by Fairy Dyes, Ltd. Some excellent samples of honey are to be seen at the stand of the Be-Ze-Be Honey Co. (Climaco Vargas, Ltd.). Attention is drawn to the virtues of Irving's Yeast-Vite tablets in an effective manner, and the same applies to the exhibit of Kolynos, Inc. J. W. Lightbown & Sons have an attractive display of Grips first-aid pastilles. Newball & Mason, Ltd., are showing, among other lines, citrates, wine essences, and the widely-known Mason's extract of herbs, all of which should shortly be in great demand. Cash tills form the leading feature at the stand of Thomas O'Brien, Ltd. Interest in Peldo (C. R. Harker, Stag & Morgan, Ltd.) shows no sign of abating, and its value to housewives and gardeners is being ably demonstrated. Chemists should make a point of inspecting the exhibit of XL Showcard Machine Co., Ltd. This apparatus enables showcards and price tickets to be produced with a minimum of trouble. To make a ticket, the (metal) type is arranged, a suitable piece of card is covered with a sheet of dry gummed paper, and a lever pulled down. The result is excellent. Another advertising arrangement is the Roto-Sign, obtainable from the Waturdaw Co., Ltd. It consists of a wood frame with an opening showing a continuous stream of illuminated letters spelling out a message. The colour and message can be easily changed, and the cost of running is quite low. Among the displays arranged by the Colonies and foreign countries are some good samples of linseed by the Consulate General of Lithuania, and coconuts and palm oil by the Malay States Information Agency. In the Italian section of the exhibition P. Sasso & Figli, for whom Fredk. Boehm, Ltd., are the agents, have an exhibit of a fine quality olive oil, which, packed in the original tins, makes an attractive display. Sugar of milk and lactates are shown by Società di Esportazione Polenghi-Lombardo. Provincial Exhibitions, Ltd., well known to chemists in the North, are advocating their claims as organisers of similar events in the provinces.

Information Department

INFORMATION WANTED

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated:

| | |
|---|-----------------------------------|
| M/144. "Apex" (triangle trade-mark) rubber hot-water bottle | A/144. "Rose of Geranium" perfume |
| B/144. Calcium nasal wash | A/94. Sentinel night lights |
| B/154. "Helvetia" bandage (or plaster) | H/94. S.F.F. eupensory bandages |
| F/24. Hunter's gout and rheumatic powders | B/114. Soluble fir-tree oil |
| | A/144. Zed biscuits |

LANCASHIRE boroughs are vying with each other to attract new industries to their districts, and extensive advertising schemes are in prospect with this end in view.

Observations and Reflections

By Krayser II.

The Fight over the By-Laws

has had among other effects that of sending us back to the beginnings of legislation affecting our craft, to the Charter of 1843 and the Act of 1852, "For regulating the Qualifications of Pharmaceutical Chemists," and from these to a consideration of the way in which they are modified by the subsequent Pharmacy Acts. And the most curious fact revealed by such a retrospect is this—to which I have referred in at least one recent note—that a legal control originally intended to apply only to a Society not only not continuous with the whole trade but comprising a comparatively small part of it, has now been, in some respects, extended to the whole, though there are some respects in which the old conditions are so altered that the constitution set up for the Society aforesaid is now unworkable. Great play has been made by the framers of the new by-laws with the restrictive enactments (real or supposed) of 1843 and 1852, which obviously were never intended to apply under present conditions, and some of which it is impossible to observe without violating the spirit in which they were intended. The "general meeting," for instance, is now a mere mockery of what it was meant to be. Equally or even more farcical is the distinction that has grown up between a pharmaceutical chemist and a member of the Pharmaceutical Society. Originally to be a member of the Pharmaceutical Society was to be a pharmaceutical chemist, and *vice versa*, but it is no longer so. The new by-laws do not affect this anomaly, nor that of a general meeting which is not general. But they make the former of the two (if possible) more obvious.

But One Alteration,

and that a serious one, affecting the pharmaceutical chemist, the new by-laws do make. According to the Charter and the Act of 1852, every pharmaceutical chemist (or every member of the Pharmaceutical Society, which, as I have said, was then the same thing) must first have been a chemist and druggist, except "persons elected as superintendents by the Council," whatever they may be. The wording seems quite clear on this point: "Such Members shall be Chemists and Druggists who are or have been established on their own account or who shall have been examined in such manner as the Council of the said Society shall deem proper or shall have been certified to be duly qualified for admission as members or else shall be persons elected as Superintendents by the Council." If English grammar has not been strangely altered since I was at school, there can be no possible doubt what this means; and the presumption is that if it has not been expressly revoked by some subsequent Act of Parliament which I have overlooked it still holds good. I called attention to this point three weeks since, but as nobody seems to have noticed the fact I venture to do so again, in the hope that advantage will be taken of the impending general meeting to ask a question on the subject. Our secretary will, I suppose, still be away when the meeting is held, but even in his absence there should be somebody on the Council with sufficient legal knowledge to say whether my doubt of the legality of the by-laws in this particular is well-founded or not.

Thomas Hood's Claim

to be "the foremost English humorist" might easily be disputed, and small honour is done to him by making it. He was something more than a humorist. Indeed, the tragedy of his life, consumptive as he was, is just this—that, as Dr. Garnett says, "his puns sold better than his poetry." Hood's father (himself the author of several works of fiction), though apprenticed to a bookseller of Dundee, is best spoken of as a publisher, a member of the firm of Vernor, Hood & Sharpe, of the Poultry. For reasons of health, Thomas Hood was a resident of Dundee with friends of the family, from his sixteenth to his nine-

teenth year, and this may explain how it was that his first literary effort appeared in the "Dundee Advertiser." However this may be, it is as a poet rather than as a humorist (in which latter capacity several men of inferior genius have equalled him) that Dundee should take pride in him. It was not until his poetical vein seemed to be giving out that this "poetical heir of Lamb and Hunt" was "in danger of becoming a mere jester." Prolific as he was in "whims and oddities," the prince (possibly) of punsters, and certainly a humorist of no mean order, his comic annuals and other things of that kind make rather dreary reading now in the collected edition of his works. A few masterpieces of verbal wit will perhaps never lose their savour altogether, but it is in his serious poetry that he will longest survive. Austin Dobson, who traces in him a likeness not only to Lamb, but to that infinitely greater poet Keats (to whom, by the way, as Miss Amy Lowell has just reminded us, he was a good friend), speaks of him as the "gentlest and most patient of poets."

Eno's "Fruit Salt"

I well remember to have seen for the first time in a Birkenhead pharmacy very early in the 'seventies, 1871 I believe; and as I was then calling daily upon chemists, and had been senior assistant in a retail shop in the neighbourhood for some time before, I fancy it could not have been very long in general demand at that time. It was the name that arrested my attention, the names rather, for I had never before met with "Eno." But "Fruit Salt" was what, to use the language of to-day, chiefly intrigued me. Its happiness was so instantly apparent that I remarked upon it to my customer, who heartily agreed. Years afterwards Robert Louis Stevenson, in one of his essays, humorously, but I suspect with more than a spice of seriousness, suggested that the name explained the fact that this article had to a considerable extent superseded another with a less taking title in popular esteem. However this may be, it is certain that a happy name is "the first letter of recommendation" to public favour where such things are concerned. And the happiest are those that appeal both to the ear and the imagination.

Cascarilla,

though not, as you say, introduced into our Pharmacopœia until 1746, was known in Europe towards the close of the seventeenth century, when, however, it was confounded with cinchona and used for it. The name cascarilla was long after this applied to a species of cinchona as well as to the bark of eleutheria; and Pereira, so lately as in 1853, thought it necessary to protest against this. Cascarilla was called grey Peruvian bark, and Brookes says it was by some practitioners preferred to Jesuit's bark for the cure of intermittent fevers. Flückiger and Hanbury say that cortex eleutherie was its common name among druggists down to the end of the eighteenth century; but this can hardly be correct, for both Brookes (1773) and Healde (1791) index and speak of it as cascarilla. Brookes, indeed, says that this was its name "abroad," but Healde gives it no other. The tinct. cascarillæ was introduced into the London Pharmacopœia in 1788. Apinus, a physician of Hersbruck, near Nuremberg, who did much to bring it into use, had prescribed it long before in powder (gr. vj. to 3j.), in extract (gr. iij. to gr. viij.), in tincture (gtt. x. to gtt. xx.), and in infusion up to 3j. It was largely used even then with tobacco to correct the smell; indeed, this is said to have been its earliest use.

Handkerchief Powder Puffs,

the best means of displaying which was asked for last week, will by this time probably have become somewhat of a back number. Much more chic is the garter powder puff, the display of which both before sale and after will be at once easier and more attractive. Whether they will sell so well is another matter. I had understood that so far as ladies, who are, I suppose, the chief users of powder puffs, are concerned, garters had been largely superseded by another contrivance—suspender, is it called?



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There is a steadily increasing demand for Prescription (Humanised) Glaxo, which is being largely ordered by Doctors.

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Editorial Articles

Organised Research

THE report of the Committee of the Privy Council for Scientific and Industrial Research for the year 1923-24, which has been published, is the ninth annual report. It will be remembered that the Committee is due to a wartime realisation that this country did not encourage research into scientific and industrial problems, and that for the future development of industries this must be done. A grant of a million pounds was made, and it is this money that is being used for promoting researches of the character indicated. The report of the Committee is a summary of the year's work, the main part of the report being contributed by the Advisory Council, who are the scientific, and consequently the most important section of the Research Department. Grants from the million-pound fund are made to associations founded in connection with particular industries, conditional upon the associations raising a proportional amount of money. Thus there are research associations connected with the glass, photographic, and sugar

confectionery trades among others, and we turn to the report for details of the accomplishments during the year. It is better, however, not to judge of the success of the associations by the results achieved in a limited period, as it is obvious that the more difficult a problem is the less likely are sensational results to follow quickly. The National Physical Laboratory, it may be mentioned, is in charge of the Department. Passing over much of the report which applies to fuel and engineering problems, we note that work is still being carried out with a view of producing fermentable sugars from wheat straws, so that alcohol for motive power can be made in those portions of the Empire where the raw materials exist in abundance. Endeavours are being made to do away with the use of mineral acids for hydrolysing the raw materials. Some work has been done on the use of solid organic acids in place of mineral acids, and these, although more costly, have the advantage of facility of transport. The discovery that "brown heart" in apples, conveyed from Australia is due to an accumulation of carbon dioxide in the atmosphere of the holds of the vessels in which the fruit is conveyed is again referred to. The problem has developed into a research on the proper ventilation of ships' holds. It has been found that eggs can be preserved by freezing if the temperature is not allowed to fall below -6°C ., or by freezing and thawing with great rapidity. This has a bearing on the preservation of meat by cold. The causes of the setting and hardening of Portland cement has been the chief item in the programme of the Building Research Board's work on cements and concretes. Magnesite (jointless) floors have a corrosive action on metals in contact with them, but it is believed as a result of experiments that by the substitution of ferrous chloride for magnesium chloride in the preparation of these cements the defect can be remedied. The Stone Preservation Committee has occupied its time in improving microscopic technique in the study of the structure of decayed stone. The Chemistry Co-ordinating Research Board has directed work on the production of formaldehyde. The synthesis of formaldehyde from carbon monoxide or carbon dioxide and hydrogen gave little promise of success. The Board is, however, considering the advisability of continuing the research, using high pressure and suitable catalysts on the lines of recent discoveries. The production of methyl chloride from natural gas was the object of a research on the chlorination of methane, the work being extended to cover carbon tetrachloride. The expense of the formaldehyde process for disinfecting wool has led to investigations as to the possibility of recovering formaldehyde from the air used for drying the wool and from the liquors resulting from the disinfecting process. The production of a film of oxide on the surface of aluminium which will serve as a protection and resist corrosion has been accomplished. It has been found possible to incorporate dyes in the coating so as to give films of various colours. Work has been done on vacuum vessels as to the entry of heat and the comparative efficiency of glass and metal vacuum vessels with various gases and absorbents in the vacuum space. The origin and nature of "atmospherics" in radio telephony is being investigated in India, Egypt and the Mediterranean, where the strength of the atmospherics is about four times that observed in England. The Adhesives Research Committee report that it has been possible to produce an odourless and tasteless gelatin from fish skins comparable with that prepared from hides and having very strong adhesive properties. In an investigation on glued joints it has been demonstrated that powdered lead sulphate can be introduced into glue to increase its opacity without adversely affecting its strength. A Dental

Investigation Committee financed by the wealthy Dental Board is investigating the alloy systems involved in the production of dental amalgams and the preparation of substitutes for materials at present used in the preparation of dentures and adhesive lutes. An appendix to the report deals with the organisation of research in other parts of the Empire. From this we learn that in India investigations have been made into the chemistry of opium, the damp-proofing of matches, utilisation of sodium sulphate in the manufacture of glass, the utilisation of local essential oils and the extraction of palm oil. In Australia the prickly pear pest is being attacked by biological means. Consignments of insects known to be inimical to prickly pear have been submitted to various tests. Among the insects introduced is the cochineal insect (*Dactylopius tomentosus*), which has been found to be very destructive to the prickly pear, and at the same time harmless to plants of economic value. In Canada the investigations include one on the cultivation of drug-yielding plants in British Columbia and the isolation of water-soluble vitamin.

The Sulphur Position

DURING the past year the total world trade in sulphur showed a slight decline as compared with 1923. An authoritative estimate places the total consumption at 1,750,000 tons, leaving surplus stocks in the hands of producers at the beginning of 1925 of about 2,250,000 tons. The United States is, of course, the largest producer, contributing 2,036,100 tons in 1923, but declining to 1,220,600 tons last year. In Sicily, on the other hand, the production has increased steadily since the war, rising from 137,640 tons in 1922 to 206,238 tons in 1923, while the figure for 1924 is placed at 223,577 tons. Apart from the production in these two countries, very little sulphur is obtained elsewhere, the only other producers being Japan with from 30,000 to 35,000 tons, most of which passes into domestic consumption, and Chile, where the output reached its highest figure in 1918 with nearly 20,000 tons, since when it has dwindled to less than 10,000 tons per annum. Here also the material is used in the country of origin, mainly in the manufacture of explosives for use in mining and in the extraction of nitrate. The remarkable expansion of the American sulphur industry during and since the war seriously threatened the Sicilian producers with entire elimination, but the "cut-throat" competition was averted by the agreement of 1923, the effect of which is so evident in the production figures given above. By the agreement, which is to operate until September 30, 1926, with the alternative of renewal after that date, the various markets of the world were allocated between the two sources of supply, with considerable benefits to either side. Of the 1,220,600 tons produced in the United States during the past year, about 484,143 tons were exported, compared with 474,475 tons in the previous year. The bulk of the product is normally known as "crude," though it is of very high quality, and of the exports in 1924 only 2,329 tons of sublimed, refined and flowers of sulphur were shipped abroad, against 1,950 tons in the previous year. From Sicily exports have increased appreciably, as they were bound to do following the rehabilitation of the industry under the agreement, and rose from 133,263 tons in 1922 to 217,172 tons in 1923, and 312,079 tons last year. The United Kingdom is the largest individual customer of the Italian producers, and if no other evidence were available the improvement in the Italian position could readily be gauged from the British import figures during the past two or three years. In 1912, for example, total imports

of crude sulphur amounted to 21,760 tons, practically all of which came from Sicily, and none at all from the United States. By 1918 imports had risen to 72,720 tons, of which Italy supplied 60,000 tons. During the years 1920 to 1922, however, the severe competition from the United States made itself felt in the British market, to the virtual exclusion of the Sicilian product, but in 1923 the results of the agreement became apparent, for, out of a total import of 88,000 tons in that year, Italy supplied 60,000 tons. These figures are for crude sulphur only. Imports of refined sulphur have been steadily declining during the past few years, and are now not separately specified in the official returns. From 1920, when 12,400 tons of sublimed and flowers of sulphur were imported into this country, the total has dropped to 5,030 tons in 1923, the latest year for which separate figures are available. The recent progressive increase in total British imports during the past three years from 54,490 tons in 1922 to 93,038 tons in 1923 and 110,522 tons last year is due in the main to the substitution of sulphur for pyrites in the manufacture of sulphuric acid. On the basis of the imports for the first two months of the year, a further improvement on last year is to be recorded. This improvement has not, however, been effected without a corresponding decline in the price in this country. In the British market at the beginning of 1922 flowers were quoted at about £13, roll £12 10s., and American £6 per ton, c.i.f. By the middle of 1923, after the agreement between the American and Italian producers had been consummated, comparative prices were £8 5s., £8 5s., and £5 5s. respectively. A year later prices were lower still at £7 10s. for flowers and roll, while the quotation for American advanced to £5 15s. During the latter part of 1924 the c.i.f. quotation for flowers rose first to £8, and then to £9 per ton, but the price has recently dropped to its former level of £7 10s. That it is unlikely that prices will further decline—rather will increase, in fact—is to be inferred from the remarks recently made by one of the largest American producers to the effect that present prices are too low, and have for some time been on an unremunerative basis. It is his considered opinion that the possibilities of a revival in demand in 1925 may lead to a higher level of prices than has prevailed during the past two or three years. Much, of course, has been done in the direction of increasing the utility of sulphur, and extensive investigation has indicated several new avenues of research. But it is chiefly to the continued and steady increase in the world consumption of fertilisers, which directly influences the world production of sulphuric acid, that the sulphur producers look for an expansion in the demand for their product.

More Regulations Contemplated

ONE would think that the amazing tangle of regulations made under the Dangerous Drugs Acts was sufficiently inclusive to ensure that "dangerous" drugs cannot be used for habit-forming purposes. It appears, however, that the Home Office is not satisfied, and contemplate making the regulations include any quantity of a "dangerous" drug used in a medicine, no matter how small it may be. The British Medical Association have been asked if the medical profession would be likely to object strongly if the Dangerous Drugs Regulations were made to apply to all preparations containing opium, morphine, etc., no matter how small a proportion of the drug. The Council of the Association has replied that as such a provision would include every cough mixture and many other preparations in common use it could

not agree to such a restriction, and has informed the Home Office accordingly. The Minister of Health has also been making inquiries as to the total suppression of the manufacture of heroin or its limitation to the minimum amount required. The Council in this case has informed the Ministry that as this drug has a legitimate use in medicine, the Association cannot agree that its manufacture should be prohibited, but there would be no objection to such limitation of the manufacture or supply of the drug as would not interfere with its legitimate use either now or in the future. It is necessary that the Home Office and Ministry of Health be watched closely, as Government departments have a method of carrying out their ideas no matter how impracticable they appear to technical advisers. One well-known method is to appoint a departmental committee of their own nominees whose report in favour of any proposal is a foregone conclusion.

Sale of Industrial Spirit Preparations

It has always been doubtful whether retail chemists could legally sell preparations made with industrial spirits bought from wholesale druggists. The question became urgent since the addition of colour and pyridine to methylated spirits made these unsuitable for several purposes for which they were formerly employed. In the case of hair spirits and sick-room spirits most of the wholesale druggists make preparations with industrial spirits from formulas approved by the Board of Customs and Excise, but so far from the published regulations it did not appear that a wholesale druggist could pass on to a retail chemist the right to sell these preparations. At the same time, it is known that the Commissioners have wide powers in the administration of Inland Revenue laws. To find out whether the Commissioners had made any concession in this point we asked for a definite ruling, and are glad to be able to publish the following reply:—

No. 22128/24

Custom House, London, E.C.3.

14th April, 1925.

SIR.—In reply to your letter of the 30th ultimo, I am directed by the Commissioners of Customs and Excise to inform you that permission is not required by a retail chemist to sell industrial methylated spirit preparations obtained from a manufacturer who has been authorised by the Commissioners to use the spirits in making the preparations in accordance with formulæ approved by them.

I am, Sir, your obedient servant,

J. B. NEWELL.

This settles the question definitely, and it is useful to chemists whose sale of preparations made from industrial spirits are not sufficient to justify the formalities of obtaining these spirits and devising formulas for approval by the authorities.

Business Changes

PARTLOW, DAVIS & Co. have opened a pharmacy at 79 Oldham Road, Rochdale.

MR. R. SLATER, chemist and druggist, has opened a pharmacy at Eskrick Street, Bolton.

MR. E. A. MANLEY, chemist and druggist, has opened a pharmacy at London Road, Hazel Grove, Stockport.

MR. R. MOUNTAIN, chemist and druggist, having retired, the business at Tower Street, Bacup, has been closed.

MR. M. CATLOW, chemist and druggist, has taken over the business of Mr. T. S. Wright, chemist and druggist, 46 Bolton Street, Ramsbottom.

MR. HARRY TAYLOR, chemist and druggist, has taken over the business of Browns (Chemists), Ltd., at 35 Moor Lane, Clitheroe, of which he has been manager for the last few years.

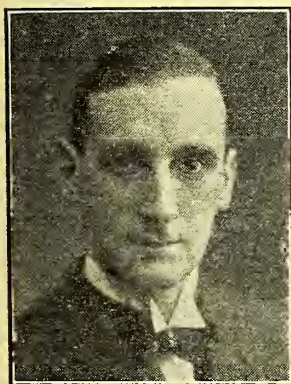
MR. FRED. HINDLE, chemist and druggist, 657 Ecclesall Road, Sheffield, has purchased the business of the late Mr. J. H. Bradwall, chemist and druggist, 163 Ecclesall Road and 1 Summerfield Street, and as from April 7 is carrying it on as a branch.

Council Candidates

TEN candidates have accepted nomination for election to the Council of the Pharmaceutical Society, and there will accordingly be a contest when seven seats fall vacant in May. In addition to the retiring members, all of whom offer themselves for re-election, Messrs. W. J. Beardsley, Jules Cofman-Nicoresti, and John Ingham, Ph.C., have expressed their willingness to accept office if elected. We have asked the candidates to favour us with their views on pharmaceutical politics, and propose to publish these as promptly as considerations of space permit.

Mr. William James Beardsley

was born in 1880 at Bloxwich, near Walsall, and is the eldest son of Mr. William Beardsley, for some years



MR. W. J. BEARDSLEY

editor of the "Walsall Free Press" and a member of the Town Council. Educated at the National School and the Walsall Technical School, Mr. W. J. Beardsley was apprenticed with Southall Brothers & Barclay, Ltd., Birmingham, under the late Mr. John Barclay, B.Sc., Ph.C., in 1896. On completing his apprenticeship he became under-manager of the laboratories in Bull Street, spending some months on special research work in synthetic rubber; during this time he attended the Birmingham Municipal Technical School for chemistry and also the Midland School of Pharmacy. In 1903 the post of first assistant chemist to Thomas Hodgkinson, Prestons & King, became vacant, and Mr. Beardsley was chosen out of ninety applicants. Here, under the late Mr. J. Classon Preston, Ph.C., he developed the manufacture of nitre by a special process. In co-operation with Mr. Preston a formula for a special unflammable flooring was brought out, which has been very largely used in London. On the death of Mr. Preston Mr. Beardsley was appointed by the firm as chief chemist, and at this period a great deal of time was given to the development of special silver salt ointments for ophthalmic work. Mr. Beardsley passed the Qualifying examination at Bloomsbury Square in 1912. During the war, while remaining with Messrs. Hodgkinson, Prestons & King, he became advisory chemist to several well-known London and American houses, developing and making proprietary preparations during the difficult days of 1916-17. He has spent much time in improving the alkaloidal estimations of opium, belladonna and nuxvomica. On the retirement of Mr. Herbert E. King in 1919 Mr. Beardsley was invited by the remaining partners, Colonel A. C. Preston and Mr. Herbert C. Preston, to join them in partnership. For some years he has been a member of the West Ham Association of Pharmacists, and in 1923 he was elected chairman of the East Metropolitan Branch of the Pharmaceutical Society. As a Freemason he has had the unique experience of being the first initiate of his lodge and the first exalte of his chapter, Snarebrook 4010. Mr. Beardsley sends us the following statement:—

At the request of many friends I have allowed my name to be put forward as a candidate for the Council at the forthcoming election.

I do this, in the first place, as a strong protest against the methods of the present majority of the Council, who, in my opinion, overstepped their authority when they established the new by-laws and regulations without having first submitted them for the consideration of the branches. In the main I support the new scheme, but I suggest that many of its imperfections might have been obviated had the branches been afforded the opportunity of amendment.

Secondly, I strongly object to the waste of time and money involved in calling delegates of members to meetings which are little less than farcical, since nothing more than a promise of consideration is given to the result of their deliberations.

Further, the branches are not the success they should and would be if the local associations were encouraged to become "live" branch associations. This would enable members to become more intimately acquainted with each other, and would tend to a development of *esprit de corps* which could not fail to be beneficial to the profession.

Being jealous of our high traditions I am anxious to uphold and maintain the recognised principles of the profession, also to develop and extend the benevolent side of our Society to its fullest extent. As a member of the West Ham Association and past-chairman of the East Metropolitan Branch, I am closely connected with all sides of our calling. If elected, my best services will be at members' disposal, my aim being to further the interest and elicit the confidence of the "individual pharmacist" rather than to bow the knee to an autocratic majority at headquarters.

Mr. Herbert Antcliffe

is one of the seven councillors who hope to be again returned. Mr. Antcliffe's service on the Council dates

from 1921, when he was co-opted to fill a vacancy caused by the death of Mr. J. W. Deakin. A native of Eckington, Derbyshire, Mr. Antcliffe was educated at Camm's Endowed School and at the Royal Grammar School, Sheffield. He was apprenticed in the old business of Maleham & Sons, and passed the Qualifying examination in 1891. A year afterwards he was appointed as dispenser by the Sheffield Guardians, a position he still holds. Mr. Antcliffe has recently been made a member of the Court of Governors of Sheffield University. He has been connected with the Sheffield Pharmaceutical and Chemical Society for many years in an official capacity, and when the British Pharmaceutical Conference met at Sheffield in 1904 he was the local secretary. He is now secretary of the Sheffield Branch of the Retail Pharmacists' Union. Mr. Antcliffe has occupied a responsible position on the Council of the Pharmaceutical Society as chairman of the Law Committee; during his chairmanship a more thorough inspection of shops in connection with the administration of the Pharmacy Acts has been inaugurated by the employment of whole-time inspectors, and it is hoped to extend this system in the near future. Mr. Antcliffe's views are indicated in the following summary:—

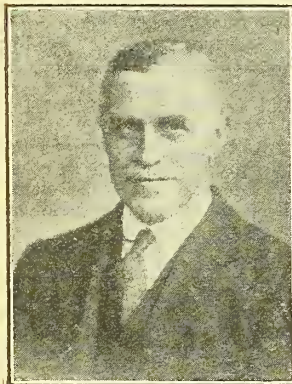
The question of the chemist's title, which I put in the forefront of my first election address, remains a vital one for pharmacy. Attempts are still being made by outsiders to appropriate what is ours, and chemists in business must resist all such attacks. Another cardinal matter is the treatment of pharmacists by the authorities under the Dangerous Drugs Acts. The rights of chemists must be safeguarded, and it is more than ever necessary to take a strong stand against any further orders unsanctioned by Parliament. The organisation of the Pharmaceutical Society has assumed a new aspect in recent weeks. I am strongly in favour of a more up-to-date method being found for altering or making new by-laws, whereby every member of the Society throughout the country shall be able to voice his opinion equally with those who are able to attend a special general meeting in London. I also feel that the time to act is now, not in the dreamy future.



MR. H. ANTCLIFFE

Mr. E. Saville Peck, M.A., Ph.C.,

is in business at Cambridge. He was apprenticed to his father, the late Alderman George Peck, and won the



MR. E. SAVILLE PECK

Herbarium bronze medal of the Pharmaceutical Society in 1884. After passing the Major examination in 1889, Mr. Peck studied for the Cambridge Degree in A ts, graduating B.A. in 1896 and proceeding to M.A. in 1899. He was secretary of the British Pharmaceutical Conference from 1901 to 1912, and was on two occasions President of the Conference. His war service was summarised in the *C. & D.*, I, 1921, p. 822. Mr. Peck indicated his views on pharmacy in his address on October 6, 1920, at the opening of the School of Pharmacy

of the Pharmaceutical Society, and again as President of the British Pharmaceutical Conference in the following year. As an examiner for twenty years and inspector of institutions where pharmacy students are taught, he may be accepted as an expert on pharmaceutical education and examination. In November 1924 Mr. Peck was returned unopposed as representative of the Fitzwilliam ward on the Cambridge Town Council. In reply to our request for an expression of policy, Mr. Peck writes:—

My three years' experience upon the Council has shown me the necessity of closely watching the actions of the various Government departments and of continually maintaining the claim of the pharmacist. I have been immensely struck by the increasing influence of the Pharmaceutical Society and the many occasions upon which these departments have sought the co-operation of the Society.

I am in full sympathy, generally speaking, with the forward educational policy of the Society, and consider that the time has arrived when, basing our claims upon our increased educational standards, we must seek fuller recognition and greater remuneration for the services rendered by pharmacy to the State, to medicine, and to the public generally.

I am an enthusiastic supporter of the branch organisation of the Society, and consider that it should be one of the first duties of the new Council to define clearly the functions of the delegates of the branches to the various conferences they attend.

The suggested pharmaceutical league of ex-Service men has my entire approval, and will continue to do so whether or no I am re-elected on the Council. I realise that reform is long overdue, and that the present position is but the reflection of the opinion of the Army medical authorities upon pharmacy and its place in the community. It will require all our energies to convince them of the necessity for radical alteration.

I am of opinion that some changes will have to be made in the regulation for sale of proprietary medicines, and that it is the duty of the Council to co-operate with the Government department concerned and see that the public is protected and that the interests of the pharmacist are safeguarded. I ask for the opportunity of serving as a member of the Council.

NEW ACONITINES.—At the meeting of the Académie des Sciences in Paris on March 23, Dr. Roux stated that two new alkaloids had been isolated from *Aconitum anthora*, to which the names of anhorine and pseudo-anthorine had been given. The former was found to be 1,000, and the second 200 times less toxic than aconitine. At the same meeting, Mr. Henry Scott, London, was elected supplementary correspondent for the botanical section.

Olive Oil**PRODUCTION FORECAST**

THE Bureau of General Statistics of the International Institute of Agriculture at Rome has issued a leaflet giving a summarised forecast of the results obtained this season, as the crop estimates of the chief European olive-oil producing countries are available (Portugal excepted), in addition to figures from the three olive-growing countries of North Africa, and some from Asiatic states bordering on the Mediterranean. The aggregate production of these countries constitutes over 90 per cent. of the world's yield. Each of the three largest producers of olive oil (Spain, Italy and Greece) report good yields. In Greece a particularly noteworthy increase is recorded (2,650,000 centals, compared with 1,080,000 in 1923), and the estimate is for a larger yield than in any year apart from the exceptional production of 1920 (3,150,000 centals). In Spain, the olive crop, without attaining excellence (inasmuch as the figures reached in 1911 and 1917 surpassed 9,300,000 centals), may be classed as good (7,050,000 centals, compared with 6,600,000 in 1923). It would have been even more favourable had it not happened that in Andalusia, the richest olive-growing region, serious damage was done by drought, and especially by the olive-fly, which reduced the output in that province to a level decidedly below that of the previous year. The good harvests realised in other oil-producing districts, and particularly those in the east (Valencia, Castellón, Murcia, etc.), in Castile (Toledo, Guadalajara, etc.), and in Aragon (Teruel and Huesca), largely compensated for the losses in Andalusia; the aggregate yield in Spain being returned as from 10 per cent. to 15 per cent. more than in any of the previous three years. The Italian crop (4,600,000 centals, compared with 4,000,000 in 1923) has given results almost parallel to those in Spain, and may be classed as plentiful, being inferior only to the exceptional yields of 1922 and 1918 (each 5,600,000 centals) and to the very heavy yields of 1909 and 1911 (5,100,000 centals and 4,900,000 centals respectively), and resulting, as in Spain, from local abundance (in Sicily, Apulia, Calabria, Basilicata and Campania), with short crops elsewhere, particularly in the north (Liguria) and the centre (Tuscany, Latium and the Abruzzi). In France, on the other hand, the yield is somewhat poor (180,000 centals, against 320,000 in 1923), consequent on the unfavourable weather which prevailed during the flowering period. The yields of North Africa (Algeria, latest estimate, 770,000 centals; Tunis, 490,000 centals; and Morocco, 190,000 centals) may be considered as slightly above average, while the Asiatic returns (of comparatively little international importance) are decidedly poor.

On the basis of the above information, the International Institute of Agriculture gives the following estimates of the olive-oil production in a group of countries supplying 90 per cent. of the world's aggregate output.

| Year | Yield of olive oil (centals) |
|------|------------------------------|
| 1924 | 16,000,000 |
| 1923 | 13,500,000 |
| 1922 | 15,700,000 |
| 1921 | 12,100,000 |
| 1920 | 16,500,000 |
| 1919 | 12,500,000 |

On the whole, the olive-oil yield of 1924 may be considered as quite satisfactory. This is due in great measure to the yields obtained in Europe, which are decidedly better than those of the previous year, and even somewhat higher than the plentiful yields of 1922 and 1920.

FEWER ANTHRAX CASES.—In the course of a recent inquest in South London, medical evidence showed that only four or five cases of anthrax a year are now treated at Guy's Hospital. The diminution in the incidence of the disease was attributed by a Home Office official to the exhibition of printed warnings.

Pharmaceutical Society of Great Britain

Examination Results

LONDON

The following are the results of the Pharmaceutical Society's Qualifying examinations held in London and Edinburgh this month:—

| | No. | PART I | | | | PART II | | | |
|--|-----|--------|--------|----------|--------|---------|--------|----------|--------|
| | | Absent | Failed | Referred | Passed | Absent | Failed | Referred | Passed |
| Entered for whole examination | 43 | 2 | 25 | 8 | 8 | 4 | 1 | 1 | 2 |
| Entered for Part II and referred subject in Part I | 21 | — | — | 5 | 16 | 1 | 7 | 4 | 4 |
| Entered for Part I only | 325 | 9 | 117 | 56 | 143 | — | — | — | — |
| Referred subject in Part I only | 34 | 1 | — | 6 | 27 | — | — | — | — |
| Entered for Part II only | 152 | — | — | — | — | 4 | 39 | 53 | 56 |
| Referred subject in Part II | 61 | — | — | — | — | 2 | — | 25 | 34 |
| | 636 | 12 | 142 | 75 | 194 | 11 | 47 | 83 | 96 |

Referred in one subject: Botany, 56; chemistry, 15; physics, 4; materia medica, 23; pharmacy, 57; poison law, 3; total, 158.

PART II

The following, having satisfied the examiners in Part II, have been registered as chemists and druggists:—

| | |
|-------------------------------------|-------------------------------------|
| Astin, H. W., Surbiton | Guy, P. W., Great Crosby |
| Bargery, P. E., Haslemere | Haigh, Norman, Bradford |
| Briggs, Joe, Bradford | Hargreaves, G., Burnley |
| Brockington, S. F., Whimble | Hargreaves, T., Norton-le-Moors |
| Burnett, E. S., High Wycombe | Haynes, W. T., Newport |
| Burry, D. E. H., Picton | Hendey, N. I., Lyndhurst |
| Butler, J. R., Salford | Heywood, S., Oldham |
| Cameron, B. D., Harrogate | Hinson, T. H., Bourne |
| Cardwell, R. L., Blackpool | Holroyd, E., Bradford |
| Chambers, Elsie M., St. John's Wood | Homer, C. B., Todmorden |
| Clough, H., Nelson | Hopwood, F. S., Bardon Hill |
| Cullimore, C. E. C., Alva-ston | Hunt, R. A., Sudbury |
| Dadd, Ada R., Shepherd's Bush | Jeeves, A. L., Brighton |
| Davies, A. L., Troedyrhiew | Jenkin, Queenie M., Bath |
| Denston, T. C., Derby | Johnson, Lucy, Adlington |
| Dummer, T., Neath | Jones, H. L., Colwyn Bay |
| Dunn, Ronald, Halifax | Jowett, J., Horsforth |
| Edmondson, Arthur, Bolton | Large, D., Norwich |
| Edwards, B., Port Talbot | Latham, C., Southport |
| Edwards, W. O., Aberystwyth | Levine, L., Manchester |
| Ellis, A. E., Blackburn | Lewis, J. F., Cape Town |
| Ellis, S. E., Blackburn | Lord, Enid M. B., Gorton |
| Ellis, W., Bridlington | Lumb, A. S., Stainland |
| Evison, T. G., Alford | McCulloch, J., Walsall |
| Fennall, A. H., Bolton | Marsh, N., Wallasey |
| Ferriday, A. C., Oaken-gates | Martin, S. E. W., South-ampton |
| Ferriday, C. F., Bedale | May, M. A., North Eving-ton |
| Fielder, Daisy E. R., Kil-burn | Melling, K., Bolton |
| Flenley, Doris M., Liver-pool | Penfold, Marjorie L. L., Emsworth |
| Forsey, J. W., Upper Parkstone | Peters, Marjorie A., Par-sons Green |
| Foster, C. H., London | Points, Sydney F., Norwich |
| Fox, H. H., Berea | Rainsford, J. M., Perth |
| Froman, P., Doornfontein | Richards, S. E., Gulval |
| Gregson, H. H., Walsall | Roberts, J., Accrington |
| | Robertson, G. L., Lancaster |
| | Roebuck, T., Leeds |
| | Samuel, E. V., Swansea |
| | Scaife, R., Stoke-on-Trent |

Sear, J. R., Leighton Buz-zard
Simnett, H. J., Scunthorpe
Smith, S. R., Birmingham
Thistleton, G., Bolton
Thomas, A. B., Ruabon
Thomas, G., Porthcawl
Thomas, H. I., Barry Dock
Torr, Clara A., Sheffield
Walker, T. W., Norwood
Walton, J. W., Blackburn

Webb, C. H., Redruth
Weeden, G. F., London
Wilkinson, A., Nottingham
Williams, Dorothy, New-port
Williams, R. E., Resolven
Wilson, A., Hampstead
Wisdom, Olive M. L., Hildenborough
Wright, J. A., West Brom-wich

PARTS I AND II

The following, having satisfied the examiners in Parts I and II, have been registered as chemists and druggists:—

Black, T. M., Willesden
Christian, J. E., Chester-field
Holly, N. R., Pemhwi-ceiber
Ince, Elsie M., Liverpool
Neal, L. J., Surbiton
Wilson, T. C., Stowmarket

EDINBURGH

Major Examination

Four candidates were examined; Thomas William Forster, Sunderland, passed.

Qualifying Examination

| | No. | PART I | | | | PART II | | | |
|--|-----|--------|--------|----------|--------|---------|--------|----------|--------|
| | | Absent | Failed | Referred | Passed | Absent | Failed | Referred | Passed |
| Entered for whole examination | 7 | — | 1 | 4 | 2 | 1 | — | — | 1 |
| Entered for Part II and referred subject in Part I | 3 | — | — | 1 | 2 | — | — | 1 | 1 |
| Entered for Part I only | 120 | 1 | 24 | 25 | 70 | — | — | — | — |
| Referred subject in Part I only | 14 | — | — | 4 | 10 | — | — | — | — |
| Entered for Part II only | 29 | — | — | — | — | — | 4 | 6 | 19 |
| Referred subject in Part II | 19 | — | — | — | — | — | — | 2 | 17 |
| Total | 192 | 1 | 25 | 34 | 84 | 1 | 4 | 9 | 38 |

Referred in one subject: Botany, 4; chemistry, 29; physics, 1; materia medica, 1; pharmacy, 8; total, 43.

PART II

The following, having satisfied the examiners in Part II, have been registered as chemists and druggists:

| | |
|-----------------------------------|----------------------------------|
| Barron, Jean P., Forres | Fraser, C., Perth |
| Bisset, Margaret A., Rothienorman | Gill, S. M., Aberdeen |
| Boddy, Henry, Bedale | Grindrod, Mary B. G., Rutherglen |
| Brindle, W., Bolton | Lothian, Agnes, Portobello |
| Brown, A., Fraserburgh | Minty, Jean A., Corstor-phine |
| Brown, W., Glasgow | Mackenzie, Ian M., Aber-deen |
| Carter, H., Blackburn | McLaren, P. T., Edin-burgh |
| Chester, N., Coulson, N. Shields | Parsons, D. C., Wigan |
| Clark, C. E., Leeds | Pringle, A. G., Edin-burgh |
| Clarke, S. A., Keighley | Ross, D. K. M., Glasgow |
| Cow, John, Aberdeen | Sandison, W. R., Edin-burgh |
| Donaldson, T., Newcastle-on-Tyne | Stewart, Elizabeth, Ruther-glen |
| Dunn, Jean T., Chester | Taylor, Agnes M. L., Burntisland |
| Duthie, Barbara J., Rose-hearty | Walsh, J., Blackburn |
| Dyer, Peggie M., Edin-burgh | White, John, Bradford |
| Edward, James, Airdrie | Whitfield, C., Scarborough |
| Falconer, Jeannie W., Aberdeen | Wilson, H. R., Wigan |
| Finlayson, A., Strathcarron | |
| Forbes, E. L., Edinburgh | |

PARTS I AND II

The following, having satisfied the examiners in Parts I and II, have been registered as chemists and druggists: Shepherd, A., Corstorphine | Watt, R. W., Musselburgh

Branch Meetings

Blackburn.—At a meeting of the North-East Lancashire Branch, on March 24, Mr. W. A. Poucher, Ph.C., gave his address on *Pharmaceutical Service in the Army*. Mr. S. H. Sidebottom (Accrington) presided. At the conclusion of the address Mr. F. Law suggested that a small committee should be appointed to wait on every M.P. of the constituencies covered by the branch, with a view to placing the full position before them. This was approved, and the following committee was appointed:—Accrington, Mr. Sidebottom and Mr. Snell; Darwen, Mr. Standen and Mr. Walker; Blackburn, Mr. W. H. Lightbown, Mr. Isherwood and Mr. Nowell, together with representatives of the Clitheroe division. It was also decided to suggest to the Society that similar action be taken in other parts of the country.

Bradford.—The annual meeting of the Bradford Branch was held on March 24. The chairman (Mr. A. T. Bailes) presided. The annual report was presented by the hon. secretary (Mr. W. Sutcliffe), who outlined the activities of the branch during the year. The financial statement showed receipts totalling £96 14s. 10d., including a balance brought forward of £20 7s. 7d. The balance in hand and bank at the year end (March 1925) amounted to £30 5s. 10d. Mr. W. Sutcliffe (secretary), reporting on the London delegates meeting of March 18, in regard to the new regulations, said that the President had quoted figures to show in how many places existed colleges recognised for Part II training, and it seemed they were only a little over half occupied by students. This, of course, was of interest to Bradford in view of the local contention that the Bradford Technical College should be recognised for Part II. The information was similarly of interest to Huddersfield pharmacists in view of their feelings with regard to the Huddersfield Technical College. No resolution among the many tabled at the meeting touched on the question of the venue of the examinations, which the Bradford branch had contended should be sometimes in Manchester or Leeds. There had been a great deal of comment on what seemed to many delegates to be a complete lack of necessity for such a meeting in view of the inability to take any vote, or how useless a vote would be if taken. The meeting then proceeded to the election of the following officers:—*Chairman*, Mr. Frederick Foster (Dispensary, Bradford Royal Infirmary); *Vice-Chairmen*, Messrs. F. E. Burdett and W. E. Metcalfe (Bradford); also the following four new members of the Council:—Miss M. Speed (Shipley), Mr. A. T. Bailes (ex-President), Mr. Marmaduke Firth and Mr. N. Huggins (Bradford). These new councillors filled the seats vacated by Messrs. F. Foster and A. C. Pyecroft (Bradford), W. H. Green (Skipton) and J. F. Hewitt (Ilkley), who retired and were ineligible for re-election for one year. Mr. W. Sutcliffe was unanimously re-elected *Secretary* and *Treasurer*. The meeting resolved again to provide four prizes for award to the most successful pharmacy students at the Bradford Technical College.

Cheltenham.—At a meeting of the Cheltenham Branch, held on March 27, Mr. Harold Miller (chairman) gave a short account of his visit to the Society's Conference on March 18. Mr. Frank Browne, F.I.C., afterwards delivered his lecture on *The British Pharmaceutical Codex and its Uses in Pharmacy*. In the discussion which followed Mr. Miller spoke of the appearance of elixir diamorph. et terpini, which seemed always slightly cloudy. He also drew attention to the simple emulsion of cod-liver oil, which apparently needed a preservative. Mr. Palmer drew attention to liquor ferri iodidi fortis, which sometimes goes brown; also to mistura magnesi hydroxidi, which seemed to him to be more fluid than a certain proprietary preparation. Mr.

Browne, in response, said that every query that he had received at lectures had been noted, and experiments were being made with a view to the Council issuing a supplement to the Codex at some future date. In regard to the elixir mentioned by the chairman, Mr. Browne said that a small precipitate was given when glycerin was added to the clear solution. This seemed to be unavoidable. It was necessary, he said, to store strong solution of iodide of iron in small, well-filled bottles, and kept exposed to the light. A small amount of brown coloration was not of much importance, as this was not due to free iodine. The chairman proposed, and Mr. Clark seconded, a hearty vote of thanks to the lecturer. There was a good attendance of members, and particularly of student-associates.

Manchester.—At a meeting of the junior section of the Manchester and Salford Branch, held on March 23, Mr. J. Cleworth gave a lantern lecture illustrating the social aspect of the British Pharmaceutical Conference. As an introduction Mr. Cleworth gave a short talk on the *Photographic Side of Pharmacy*.

Plymouth.—The by-laws and regulations were explained by Mr. P. F. Rowsell, Vice-President of the Pharmaceutical Society, at a meeting held recently, with Mr. A. C. Marrow in the chair. After a short interval for refreshments written questions were handed in, which were answered in rotation. Mr. Templeton, Principal of the Technical Schools, who attended with other local education experts, also spoke.

Rhyl.—The annual meeting of the Rhyl Branch was held on March 17. Mr. C. R. Dixon (Rhyl) was unanimously re-elected *Chairman*, together with Mr. T. J. Roberts (Ruthin) *Vice-Chairman*, Mr. Crabbe Davies (Rhyl) *Secretary*, and Mr. T. E. Hughes (Prestatyn) *Treasurer*. Votes of thanks were passed. Following the annual meeting, upwards of 60 sat down to dinner. The chair was occupied by Mr. C. R. Dixon. The toast of "The Pharmaceutical Society of Great Britain" was given by Mr. T. J. Roberts, to which Mr. Hampson responded. Other toasts included "The Visitors," proposed by Mr. Percy Ashfield, Mr. G. Brinson responding, and "The President," by Mr. Crabbe Davies. The remainder of the evening was devoted to dancing and musical contributions at intervals by Mr. Abner Roberts, Miss Maude Roberts and Mr. Percy J. Ashfield.

Southend-on-Sea.—At a meeting of the Southend Branch, on March 19, Mr. H. Skinner gave an address entitled *Education Now and After*. Mr. Skinner explained many points of the new regulations, and gave a brief account of the delegates' meeting held the previous day. Mr. Heywood thanked Mr. Skinner on behalf of the branch, and Mr. Atkinson seconded.

Sunderland.—The Sunderland Branch held the annual meeting on April 1, Mr. R. Anderson (chairman) presiding. The reports of the secretary and the treasurer, the latter showing a balance of £2 11s., were adopted. The following officers were elected:—*Chairman*, Mr. Wm. Forster, Ph.C. (Seaham Harbour); *Vice-Chairman*, Mr. Nimmo (Pallion); *Treasurer*, Mr. T. Dalton (Sunderland); *Secretary*, Miss H. C. M. Winch; *Committee*: Messrs. T. Cheetham (South Shields), R. Anderson (Sunderland), J. Darling (South Shields), J. Carr (South Shields), H. Wardropper (Sunderland), A. Grant (Seaham Harbour), Wm. Nixon (Sunderland). It was decided to hold an examination for student associates, and that two prizes should be awarded both for Part I and Part II. The annual picnic will be held at Barnard Castle.

FINNISH PRESCRIPTION STATISTICS.—During the year 1924 the third pharmacy in Viipuri (Viborg) dispensed the highest number of prescriptions of any business in Finland, viz., 60,055, followed by the fourth pharmacy in Turun (Abo) with 54,529, and the third pharmacy in Helsinki (Helsingfors) with 52,860 prescriptions. The smallest number is reported by the pharmacy in Inari—710 prescriptions, while the branch in Vimpeli dispensed only 193 prescriptions during the year; the pharmacy in Lappajärvi to which this branch belongs figures in the list with 6,234 prescriptions.

Insurance Act Dispensing

Record of matters concerning Chemists' interests in the National Health Insurance Acts.

ENGLAND AND WALES

Local Reports

Blackburn.—At a meeting of the Insurance Committee recently, a scheme for testing drugs and appliances was considered. The Committee decided to consult the Panel and Pharmaceutical Committees before adopting the scheme. The total paid for drugs and appliances for 1924 was £29,301, in respect of 251,153 prescriptions in Blackburn. The dispensing fees were £4,318, and ingredients cost £4,983, the average cost of prescriptions being 8.8d. In three years there has been an increase in the cost of drugs of more than £3,000.

Blackburn.—A meeting of chemists on the Blackburn panel was held on April 8. Mr. W. H. Lightbown (President of the Pharmaceutical Committee), who presided, reported on the London conference convened for the purpose of considering the scheme of testing drugs and appliances supplied to insured persons under the Health Insurance Act. The scheme was afterwards approved.

Burnley.—At a meeting of the Insurance Committee on April 3, the number of prescriptions issued to insured persons during the past four years was reported as follows: 128,000 in 1921, 149,000 in 1922, 175,000 in 1923, and 206,920 in 1924. Mr. F. P. Pick (pharmacist) wrote complaining of the delay in the payment of chemists' accounts. Mr. Tomlinson also protested, saying that the payments were getting later. The prices they worked at were "cut," and the chemists could not afford to wait so long for their money. The secretary said for January there were 23,000 prescriptions, which was a very high ratio, and this might have led to some delay. In addition, new duties had been imposed on the Pricing Bureau.

Derby.—The clerk to the Insurance Committee reported at a recent meeting that the Pricing Bureau had taken exception to payment of certain formulary prescriptions not marked by doctors and upon which the chemist had written the initials of the formulary supplied. Eventually these were passed, but he had specially requested the doctors not to leave the chemist to interpret their intentions. This action was confirmed. Statistics received from the Pricing Bureau showed that during the quarter ended December 31, 44,131 prescriptions were issued in the committee's area. The average ingredient price was 4.3d. per prescription and dispensing fee 4.4d.

Devon.—A meeting of the Devon Pharmaceutical Committee was held at Exeter on April 1, Mr. J. E. Calkin (chairman) presiding. Mr. F. E. Battershill (delegate) reported on the conference of Pharmaceutical Committee representatives. Among the matters discussed were the testing of dispensing scheme, the drug tariff, and advertising of dispensing. It was agreed that the Pharmaceutical Society ought to seek powers to control advertising, and it was resolved to recommend the subject for further discussion to the local branch of the Society.

East Ham.—At a meeting of the Insurance Committee, on March 25, it was reported that prescriptions in 1924 numbered 194,160, against 163,401 in the previous year. The Medical Benefit Subcommittee, reporting on the return on prescribing during the quarter ended December 31, said there was evidence of undue frequency in the issue of prescriptions by a few practitioners.

Gloucestershire.—At a meeting of the Insurance Committee, held on April 6, it was reported that as a result of the analysis of four prescriptions dispensed by chemists, three were satisfactory, and although the fourth showed a slight deficiency, the error was capable of explanation and no action was taken. Messrs. W. Minchen, A. B. Shewell and W. Woodman have been appointed to the Pharmaceutical Services Subcommittee.

Kent.—At a meeting of the Insurance Committee, on April 8, it was reported that during the quarter ended December 31, 1924, 244,347 prescriptions were dispensed

at a cost of £9,724 15s. 1d. The number of persons for whom doctors prescribe is 266,069. The Medical Benefit Subcommittee had received satisfactory reports from the county analyst in five cases. Three further samples had been taken.

Leamington.—The Warwickshire Pharmaceutical Committee met recently, Mr. Hutton presiding. The secretary reported that of over forty additional samples of dispensing taken in the area only four came before the Pharmaceutical Service Committee. In a case where an excess of 20 mins. of oil of peppermint was contained in an 8-oz. mixture the dispenser was cautioned. In the second there was an excess of 196 mins. of diluted sulphuric acid in an 8-oz. mixture, evidently an error in preparing the dilute sulphuric acid. The dispenser was censured and advised not to prepare the acid himself in future. The third case referred to an excess of 15.5 per cent. of mag. sulph. and 60 per cent. acid. sulph. dil. in 8 oz. As the respondent did not appear, and offered no explanation, this case was referred to the Ministry of Health, with a recommendation as to penalty. Case No. 4 showed a considerable deficiency in quinine, and the committee administered a caution. The administrative expenses of the committee for the year 1924 (£144 4s. 9d.) were passed, and the estimate for 1925 (£144) accepted. A further amended health insurance formulary had been received by the secretary from the Panel Committee. It was resolved that exception be taken to the repeated use of fluid extracts in the formulary, and especially to the fluid extract of nux vomica in mist. alk. c. nux vom. Further, the committee could not see any necessity for cheap alternatives to the recognised 1-40 concentrated waters as priced in the tariff. Several other matters were considered unsatisfactory, and the secretary was instructed to write to the Panel Committee on the matter. Messrs. Hutton, Price and Nundy were appointed as Formulary Subcommittee. The report of the Central Checking Bureau showed that accuracy in pricing was maintained, but if possible the reports should be more up to date.

Oldham.—During 1924 the amount paid to chemists by the Insurance Committee for dispensing amounted to £11,750 13s. 5d. During January 34,510 prescriptions were dispensed; the value of drugs and appliances was £613 12s. 8d., and dispensing fees amounted to £652 5s. 7d.

Somersetshire.—At a meeting of the Insurance Committee, held at Weston-super-Mare recently, it was reported that powders, in a dispensing test, obtained from a chemist were deficient in the active ingredient to the extent of 21.5, 19.0, and 14.0 per cent. The chemist had been warned to use more care in future. The Medical Subcommittee reported that a number of prescriptions dispensed by a chemist had been endorsed by him with quantities supplied different to those intended by the prescribing practitioner owing to the chemist having misunderstood the quantities written on the prescription. The prescribing practitioners agreed that the quantities could be so misread. The committee recommended the practitioners in question to indicate more clearly in the future the quantities they desired dispensed, and informed the chemist that doubtful prescriptions should be referred to the practitioners.

Wiltshire.—The Pharmaceutical Committee held a meeting at Chippenham recently, Mr. R. T. Christopher, of Bradford-on-Avon (chairman), presiding. The annual report, presented by the secretary (Mr. A. C. Allen, Swindon), showed a large increase in dispensing during the year. The number of chemists on the panel is now fifty. Administrative expenses for the year show a decline, the relation of expense to payments being about 1.1 per cent. It was resolved to continue the method at present used for deduction of amounts for administrative expenses, except that deduction be made from dispensing fees only. The chairman announced the resignation of Mr. Allen, who had held the position for more than eight years, and who has accepted a post in Calcutta. A vote of thanks was passed for his past services, and Mr. T. Rees, Corsham, was appointed.

Trade Report

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling, packing, etc. Qualities of chemicals, drugs, essential and fixed oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities.

42 Cannon Street, E.C.4, April 16.

THE produce markets having been closed during the greater part of the week there is little of interest to report. Business was resumed in a half-hearted fashion on Tuesday, but it was not until Wednesday that a serious attempt was made. The position of the French franc makes conditions very uncertain in most markets, and there is a feeling of tension in regard to the possibility of a further decline in that currency. The few changes include an advance in Norwegian cod-liver oil based on general demand, and in particular from the United States. B.P. almond oil and saffron are lower; most kinds of ginger are cheaper, particularly West African, Jamaica and Japanese. Zanzibar cloves are easier, both on spot and forward shipment. Coriander seed is a trifle cheaper. In pharmaceutical chemicals the few changes in prices favour buyers. Boric acid has been reduced £5 per ton by makers. Chloral hydrate, hexamine, methyl sulphonal, milk-sugar, paraldehyde and sulphonal are more or less cheaper. Hydroquinone is firmer inclined in some directions. Among industrial chemicals business has been quiet over the holiday period, and there are no price alterations of importance. Sulphur is rather firmer. Among fixed oils there is little change to record. Palm is steadier, while linseed and rape are easier; castor is dull.

| Higher | Firmer | Easier | Lower |
|---|---|---|---|
| Benzoic acid Cod-liver oil Copaiba oil Nutmeg oil Rubber Shellac | Hydroquinone Mint oil (Jp.) Sulphur | Cassia oil Cloves (Zan.) Coriander seed (spot) Eucalyptus oil Ginger (African and Jap.) Hexamine Petroleum sulphonal Rape oil | Almond oil (B.P. sweet) Boric acid (makers) Chloral hydrate Linseed oil Litharge Methyl sulphonal Milk-sugar Paraldehyde Peppermint oil (Amer., c.i.f.) Red and white lead Saffron |
| | Steadier | | |
| | Barium chloride Creosote oil Guaiaacol carb. Palm oil | | |

Exchange Rates on London

The following is a list of Continental and other exchange rates against the pound sterling on London prevailing at 4 p.m. on Wednesday:—

| Place | Method of Quoting | Par of Exchange | April 7 | April 15 |
|----------------|-------------------|-----------------|---------------|---------------|
| Amsterdam | Fl. to £ | 12.107 | 11.98—11.98½ | 11.97½—11.98½ |
| Berlin | M. to £ | 20.43 | 20.09—20.12 | 20.08—20.12 |
| Brussels | Fr. to £ | 25.22½ | 94.80—94.90 | 94.80—94.85 |
| Calcutta | Per rup. | 24d. | 17½d.—17¾d. | 17¾d.—17¾d. |
| Constantinople | Pst. to £ | 110 | 915—930 | 920—930 |
| Greece | Dr. to £ | 25.22½ | 286—289 | 263—268 |
| Hong Kong | T.t. \$ | — | 27d.—27½d. | 27d.—27½d. |
| Italy | Lire to £ | 25.22½ | 116.70—116.80 | 116.55—116.65 |
| Kobe | Yen | 24.58d. | 20¾d.—20¾d. | 21¼d.—21¾d. |
| Lisbon | Escu. | 53½d. | 2½d.—2½d. | 2½d.—2½d. |
| Madrid | Pts. to £ | 25.22½ | 33.66—33.68 | 33.58—33.60 |
| Montreal | \$ to £ | 4.86½ | 4.78½—4.79 | 4.78½—4.78½ |
| New York | \$ to £ | 4.86½ | 4.78½—4.78½ | 4.78½—4.78½ |
| Oslo | Kr. to £ | 18.159 | 29.85—29.90 | 29.58—29.63 |
| Paris | Fr. to £ | 25.22½ | 92.80—92.90 | 92.00—92.05 |
| Singapore | Per dol. | — | 27¾d.—28¾d. | 28¾d.—28¾d. |
| Switzerland | Fr. to £ | 25.22½ | 24.76—24.78 | 24.75—24.77 |
| Vienna | Sh. to £ | 24.02 | 33.90—34.05 | 33.90—34.05 |
| Warsaw | Zloty to £ | 25.22½ | 24.80—24.95 | 24.80—24.95 |

Cablegrams

NEW YORK, APRIL 8.—Business is quiet. Mexican sarsaparilla has advanced to 22c. per lb., and copaiba to 56c. per lb. Menthol has declined to 11.50 per lb., and buckthorn bark to 6c. per lb. Balsam tolu is cheaper at \$1.45, and buchu has declined to 65c. per lb.

NEW YORK, April 15.—Business is fair. Menthol is lower at \$11.25 per lb., and peppermint oil is 75c. cheaper at \$13.75. Taraxacum has declined to 20c., euonymus (wahoo) bark of root to 82c., and short buchu leaves to 60c. per lb. Mercury is cheaper at \$83.00 per flask, and milk-sugar has been reduced to 20c. per lb. Hydrastis (golden seal) is dearer at \$4.60 per lb.

BERGEN, APRIL 15.—The total catch of cod for the whole of Norway since the opening of the season amounts to 32,900,000, against 33,900,000 for the corresponding week of last year, and the yield of steam-refined medicinal oil is 60,392 hectolitres, against 70,339 hectolitres last year. The market for finest medicinal oil is dearer at about 118s. per barrel, c.i.f. London, for 1925 crop.

Crude Drugs, etc.

AGAR AGAR.—The "Malwa," from Kobe, etc., has brought 131 bales.

ALMOND OIL.—One of the English pressers has reduced his price of B.P. oil by 4d. per lb. to 3s. 11d. net, in one cwt. lots and upwards, and to 4s. 1d. net for smaller quantity. French expressed is also cheaper, offering at from 3s. 5d. to 3s. 6d. per lb.

ALMONDS.—It is reported that the very large arrivals of Persian are being steadily absorbed, and that offers for further shipments have been turned down, as fresh supplies are not available. Meanwhile, business in other descriptions suitable for manufacturing has been practically at a standstill, with the result that Bari, Sicily and Majorca have gradually reduced their prices, but as they are still above the parity of Persian, little business has resulted.

ANTIMONY has been dull and the feeling uncertain. Spot lots of Chinese regulus are quoted £61 to £62, and there is no great amount of metal offering. On the other hand, forward shipment has been shaded down to about £51 c.i.f. London.

BALSAM CANADA.—Spot sales have been made at 5s. 6d. per lb.

CARAWAY SEED.—Dutch is steady at 32s. per cwt. c.i.f. for prompt shipment.

CASCARA SAGRADA.—According to the London drug statistics the imports during March were nil and the deliveries 7 tons, leaving a stock on March 31 of 356 tons against 20 tons in 1924.

CIVET in original horns is quoted on the spot at from 8s. 6d. to 9s. 6d. per oz. according to quality.

CLOVES continue dull and slightly easier, both on the spot and forward. Fair Zanzibar offer on the spot at from 11d. to 11½d. per lb.; March-May shipment has been sold at 9¾d. per lb. c.i.f. The landings during the week ending April 11 were 731, and the deliveries 273, leaving a stock of 11,664, against 40,415 in 1924 and 2,074 in 1923. So far this year the landings have been 3,181 against 31,176, and the deliveries 6,521, against 10,138 in 1924.

COD-LIVER OIL.—Our Bergen correspondent writes on April 8 that the codfishery at Lofoten and surrounding districts was favourable last week also. However, the cod is now smaller than before this season; it gives a proportionately less quantity of liver, and this again influences the quantity of cod-liver oil. The total output of all the Norwegian cod fisheries, compared with that of previous years, is as follows:

| To | Catch of cod | Yield of steam-refined cod-liver oil | Livers for crude oils |
|---------------|--------------|--------------------------------------|-----------------------|
| April 4, 1925 | 30,200,000 | 55,711 hectol. | 5,575 hectol. |
| " 5, 1924 | 28,364,000 | 58,410 " | 7,422 " |
| " 7, 1923 | 30,073,000 | 58,158 " | 8,757 " |
| " 8, 1922 | 25,926,000 | 48,045 " | 6,645 " |
| " 2, 1921 | 24,900,000 | 41,475 " | 5,353 " |

Although the catch of cod is two millions more than in 1924, the yield of cod-liver oil is about 3,000 hectol,

and the quantity of livers for crude oils about 2,000 hectol. less than in 1924. The demand is almost nil at present. Nevertheless sellers have advanced the price and are asking 116s. per barrel, and even more, in consideration of the proportionally smaller quantity of cod-liver oil produced last week. The official inspection of the Finmarken fishing commenced a few days ago. The total quantity of cod liver oil, exported from Norway in 1924, was as follows:—

| | |
|------------------------|--------------------|
| United Kingdom | 18,042 hectolitres |
| Germany | 22,687 .. |
| United States | 27,646 .. |

In London higher quotations have been made during the past few days, up to 118s. to 120s. per barrel c.i.f. being quoted. It is possible that prices may further advance, as America has been taking large quantities recently.

COPAIBA.—The "Glenluss," from Para, has brought 54 cases.

GINGER.—The stock of African in London is reported at 7,356 bags, and with shipments of new crop arriving it is anticipated that prices, which are much above normal, will further decline. Spot is offered at 63s., and April-May shipment at 52s. 6d. c.i.f. London. Japanese is also easier at 95s. spot, and March-May shipment 80s., c.i.f., London or Hamburg. Brownish rough Calicut is 105s., and fair washed rough Cochín 100s. spot. Jamaica is lower, but the supplies consist almost entirely of the commoner qualities.

IPPECACUANHA.—The landings in London during March amounted to 22 packages Matto Grosso, and the deliveries to 38 of this description, leaving a stock of 223 packages at the end of March, against 192 in March 1924.

MENTHOL is steady on the spot at from 44s. 6d. to 45s. per lb. for Kobayashi-Suzuki; there are buyers at 42s. c.i.f., sellers asking 42s. 6d. to 43s. c.i.f. for March-April and April-May shipments.

MERCURY.—The attitude of the Spanish and Italian mines seems fairly confident, in spite of the fact that current terms are comparatively high. The Spanish output is believed to be going on a satisfactory scale, but the position of Italian producers is difficult to ascertain. For some time past there has been no news coming forward of the Italian production, and first-hand offers from that quarter have been few. In view of the holidays the home trade has been absolutely listless, and spot prices have been somewhat more divergent. Dealers who have practically nothing to sell were calling quotations nominally £13 10s. to £13 15s. per bottle, although certain holders claim to have early this week secured £14 per bottle for very small lots. It is rather doubtful whether anything could be found at the lower figure. Imports are still very limited, although it is surmised that considerable quantities will eventually come forward against orders placed some time ago by large European importers.

OPIUM.—The following report has been received from Turkey:—

CONSTANTINOPLE, April 9.—"During the period March 23 to date arrivals were as follows:—Druggists', 1,237; 'softs', 331, and Malatia, 267 cases. Stocks amounted to:—Druggists', 215; 'softs', 57; and Malatia, 24 cases. During the past fortnight 18 cases druggists' were sold at £T35 per oke. Reports from the interior are somewhat more favourable, complaints now being limited to the effects of mobilisation in the districts in which 'softs' are produced. Holders of stocks are reluctant to sell; on the other hand, there are no inquiries at prices now quoted."

RHUBARB.—The landings in London during March amounted to 14 chests, and the deliveries to 24, leaving a stock of 508, against 647 in 1924.

RUBBER.—Market is quiet, with nervous undertone; spot, after being done at 1s. 9½d., has declined to 1s. 9¼d., with more sellers than buyers. The position for spot rubber still remains very tight on account of the strong statistical situation, stocks having again declined last week 1,025 tons. On the other hand, "forward" rubber is at a discount, October-December being almost 2d. per lb. below the price of spot. Whilst the present demand exists, there is no possibility of prices going lower, but a rapid decline may be expected at

any moment should America hold off the market for only a short period. Quotations (Wednesday, 5 p.m.): No. 1 standard crêpe and ribbed smoked sheet, spot and April, May, June, 1s. 9¼d.; July-September, 1s. 8¾d.; October-December, 1s. 7½d.

SAFFRON.—Valencia is cheaper on the spot at 122s. 6d. per lb. for superior. Recent reports from Spain point to a firmer position after the recent decline.

SARSAPARILLA.—The landings in London during March amounted to 21 bales and the deliveries to 19, leaving a stock of 379, against 210 in 1924.

SEEDS.—The seed market remains very quiet, with prices as follows:—**ANISE.**—Spanish is 65s. per cwt. and Russian 60s. Levant is 49s. **CANARY SEED.**—Mazagan has sellers at 28s. per cwt., but there is no demand; good bold Spanish is 34s. 6d. **CORIANDER SEED** has sellers at 15s. on the spot for Morocco, and to arrive 12s. 9d. c.i.f. is quoted. **CUMIN SEED** is offered at 55s. for Morocco; Malta is 55s. spot. **DILL SEED** is 21s. per cwt. **FENUGREEK SEED.**—Morocco is 16s., Spanish 15s. **HEMP SEED.**—Manchurian is 17s. 6d. per cwt. **LINSEED.**—Morocco is 25s. 6d. per cwt. **MUSTARD SEED.**—English is offered at 34s. to 35s. per cwt. on the spot.

SENEGA is quoted at 2s. 5d. per lb. on the spot, and in one direction slightly less has been accepted.

SENNA.—The landings in London during March amounted to 223 and the deliveries to 274 bales, etc., leaving a stock of 2,191, against 1,001 in 1924.

SHELLAC is dearer, usual standard TN orange quality having been sold up to 260s. to 262s. 6d. on the spot. Fine second orange is 290s., superfine 350s., pure button 300s., AC cakey 260s., and GAL 260s. For May delivery business has been done at 255s. to 260s., and August at 242s. 6d. to 245s.

SIROPHANTHUS.—Genuine *Kombe* is scarce and unobtainable, the offerings on the market consisting of *Hispidus*.

TONKA BEANS.—Good black Para have been sold up to 2s. 9d. to 2s. 10d. per lb., and are now scarce. Angostura is 7s. The "Glenluss," from Para, has brought 34 cases tonka beans.

Essential Oils

BUSINESS is quiet this week and price changes are unimportant. Japanese mint is showing a firmer tendency forward; nutmeg and copaiba oils are dearer. Cassia oil is easier and eucalyptus oil is cheaper. American peppermint oil is cheaper in New York. Lemon oil is very irregular on the spot.

The following are the quantities and values of the essential oils (other than turpentine) imported into and re-exported from Great Britain during March, 1925, compared with the same month in 1923 and in 1924, also for the three months ended March 31, 1925:—

| | | 1923 | 1924 | 1925 |
|------------------------------|--|-----------|----------|-----------|
| March imports (other lb. | | 339,497 | 342,385 | 381,134 |
| than turpentine) .. value | | £86,391 | £71,065 | £136,683 |
| Jan.-Mar. imports do. lb. | | 1,024,801 | 993,749 | 1,175,954 |
| value | | £241,913 | £245,288 | £367,085 |
| March re-exports do. lb. | | 78,305 | 72,858 | 81,975 |
| value | | £28,454 | £23,162 | £34,876 |
| Jan.-Mar. re-exports do. lb. | | 205,224 | 261,910 | 293,682 |
| value | | £83,215 | £88,484 | £103,254 |

ANISE (STAR).—"Red Ship" is dull on the spot at 2s. 6d. per lb. March-April shipment is 2s. 4d. c.i.f., and drums at 2s. 2d.

BERGAMOT on the spot is unchanged at from 15s. 6d. to 16s. 6d. per lb. as to brand. Spot sales have been made recently at below these figures.

CAJUPUT is slow of sale at 2s. 10d. per lb. in original bottles.

CASSIA on the spot is unchanged at from 8s. 6d. to 8s. 7½d. per lb. for 80 to 85 c.a. Business would probably be done at 7s. 3d. c.i.f., but most quotations are above this level.

CITRONELLA.—Ceylon is nominal at 2s. 5d. per lb. spot and 2s. 3½d. c.i.f. Java oil is also nominal at 4s. 5d., and lower prices would probably be accepted. For forward shipment 4s. c.i.f. is quoted. Recent inquiries indicate that buyers' ideas of value are much below this figure.

CLOVE.—English distillers quote 6s. 9d. per lb. for B.P.

COPAIBA is dearer to come forward from New York at 2s. 7d. per lb. c.i.f., and up to 2s. 9d. is quoted on the spot.

EUCALYPTUS.—Owing to lack of demand and competition between Australian and Spanish oils, 70-75 per cent. cineol oil is offered at the cheaper rate of 1s. 9½d. per lb. High-percentage oil is unchanged at 1s. 11½d. for 80 to 85. Only Australian oil of this percentage is obtainable.

GERANIUM.—Offers have been made recently of Bourbon at 17s. fr. per kilo (= 17s. per lb. approximately) from the source. On the spot, the nominal value remains at 21s. to 22s.

JUNIPER BERRY.—B.P. oil on the spot is offered at from 6s. 6d. to 7s. per lb.

LEMON.—The spot market has a weak undertone and there appears to be no regular quotations. Value is nominal at 3s. 6d. to 3s. 9d. For forward shipment 3s. 10d. to 3s. 11d. c.i.f. is quoted.

A well-known Messina presser writes:—"The market has had violent fluctuations, but the tone remains exceedingly firm. The year's pressing has given unsatisfactory results, and lemons still on the trees will probably also yield an unusually low quantity of oil. On the other hand, demand for case lemons is very keen, at rising prices, so that only a small part will remain available for oil pressing. Stocks would appear comparatively small at this time of the year. A still larger demand is expected from U.S.A. this summer, and we expect higher quotations, for lemon oil at the approach of the consuming season."

LEMONGRASS.—Cochin is steady at 4s. 6d. per lb. spot and 3s. 10d. c.i.f. to arrive.

LIME.—West Indian distilled is unchanged, with sellers at 8s. 6d. per lb. Hand-pressed is scarce with small lots offered at 17s. to 17s. 6d.

MINT.—Japanese dementholised Kobayashi-Suzuki is firm at 15s. 6d. per lb. on the spot. Afloat and near at hand has been sold at 14s. c.i.f. Second-hand sellers now quote 14s. 3d. Japanese prices are higher.

ORANGE.—Sicilian sweet is quiet at from 10s. to 10s. 6d. per lb., or a shade less. The position at the source is weaker owing to fair stocks, small demand and plentiful blossoms.

PALMAROSA on the spot is offered at 14s. per lb.

PATCHOULI.—Penang oil is quoted on the spot at from 14s. per lb. upwards, as to quality.

PENNYROYAL.—Spanish is firm at 7s. per lb. on the spot.

PEPPERMINT.—American natural tin oil is quiet and nominal at 60s. to 62s. 6d. per lb. as to brand. Our N.Y. cable quotes \$13.75 f.o.b., a reduction of 75c. English oil is 65s. H.G.H. in bottles is quoted at 75s.

NUTMEG is dearer on the spot at 6s. 8d. per lb. Higher prices are also quoted c.i.f. to arrive.

ROSEMARY.—Spanish on the spot is unchanged at 2s. per lb.

THYME.—Spanish red is selling on the spot at 4s. 9d. per lb. for 28 to 30 per cent. phenols.

The following arrivals have taken place from the countries named during the period April 8 to April 15 inclusive:—Bergamot (It.), 22 cs.; bois de rose (Fr.), 1 dm.; cananga (Jv.), 1 dm.; caraway (Germ.), 8 cs.; cedarwood (Fr.), 15 cs.; citronella (Jv.), 12 dm.; clove (Holl.), 1 dm.; eucalyptus (Aust.), 21 dm.; lavender (Fr.), 3 cs.; lemon (Cz-Slovak.) 1 cs., (It.) 56 cs.; linaloe (U.S.), 2 dm.; mint (Jp.), 90 cs.; nutmeg (U.S.), 10 cs.; oak-moss (Fr.), 2 dm.; patchouli (Seych.) 4 cs., (U.S.) 10 cs.; peppermint (Austral.), 6 cs. (U.S.), 10 cs.; sandalwood (Brit. Ind.), 160 cs.; sassafras (U.S.), 1 os.; spike (Sp.), 2 dm.; spruce (U.S.), 1 cs.; undescribed (It.), 4 cs.

Pharmaceutical Chemicals, etc.

ONE or two changes in buyers' favour are recorded. Over the holidays the spot market has been quiet. The tone, however, is a little steadier after the recent reductions in prices of many items.

ACETANILIDE is unchanged with dealers offering one-cwt. lots at about 1s. 9d. per lb. for B.P. crystals or powder.

AMIDOPYRIN is rather steadier, and most offers are up to 14s. 3d., and some up to 14s. 6d. per lb. for small lots.

ASPIRIN.—The spot market is fairly steady, and some business is being done, with five-cwt. lots quoted at 2s. 9d. per lb.; some sales have been made at 2s. 8d. to 2s. 8½d. per lb.

BARBITONE.—Business in the home market remains flat, and quoted prices of 12s. 6d. per lb. are well above actual selling rates.

BENZALDEHYDE (0.3) meets with occasional small business at about 3s. to 3s. 3d. per lb.

BENZOIC ACID (B.P.) is dearer for material practically free from chlorine, which is scarce on spot; dealers quote from 2s. 6d. per lb. and upwards on the spot. It is very difficult to get import licences.

BENZONAPHTHOL continues to be quoted by dealers at about 4s. per lb., but business is slow.

BETANAPHTHOL.—Resublimed, in five-kilo lots, is quoted spot at about 3s. 6d. per lb. on a dull market.

BORIC ACID.—The British makers have reduced the price by £5 per ton, and XXX Preservative by £3 per ton, for home trade, and quote as follows: Boric acid, commercial crystals, granulated or small flaked, £40 per ton; powdered, £42; extra fine powdered, £44; B.P. quality crystals, £46; powdered, £50; extra fine powdered, £52; preservative, XXX, £75; packed in free two-cwt. bags in minimum lots as follows: Ex contract for not less than five tons, 5 cwt.; not ex contract, one ton. The previous reduction in boric acid was one of £3 per ton on June 11, 1924. Borax prices are unchanged.

BROMIDES continue firm at last week's higher rates, and the position on the Continent is also strong; ammonium, 2s. 2d. to 2s. 3d. per lb.; potassium, B.P. crystals and granular, 1s. 8½d. to 1s. 9½d. per lb.; sodium, B.P. crystals and granular, 1s. 10d. to 2s. per lb.

CALCIUM LACTATE.—Prices vary from about 1s. 6d. to 1s. 8d. per lb., according to quantity, and for large parcels slightly less would be accepted.

CHLORAL HYDRATE is cheaper with dealers offering down to 3s. 8d. to 3s. 10d. per lb., according to quantity, for duty-paid crystals. The market is now steady.

CITRIC ACID (B.P. CRYSTALS).—Conditions keep steady with dealers' prices in the region of 1s. 4½d. per lb., less 5 per cent. on the spot.

CREOSOTE (B.P.) shows no change with dealers offering demijohns at about 2s. 2d. per lb.

CREOSOTE CARBONATE is not attracting any business. Dealers quote one-lb. bottles up to 8s. per lb.; quantities, from 6s. 9d. to 7s. 6d. per lb.

GUAIACOL CARBONATE is steadier after last week's reduction in price at about 7s. 8d. per lb.

HEXAMINE for quantities shows a further reduction in values, and competition for business is still very keen; five-cwt. parcels, about 2s. 8d. per lb.; smaller lots up to 2s. 10d. per lb.

HYDROQUINONE.—Dealers are now quoting at 3s. 11d. per lb. for one-cwt. parcels and less for large quantities. As the season approaches this item may harden a little.

LACTIC ACID (B.P.).—Prices for material in bottles are steady at about 2s. 9d. per lb., and less for quantities. Technical, 50 per cent. by weight, £43 per ton, spot.

METHYL SALICYLATE.—Dealers' prices are about 1s. 7½d. to 1s. 8d. per lb. for carboys and up to 2s. 3d. per lb. in bottles.

METHYL SULPHONAL has moved down with offers on spot free at about 19s. per lb. At this figure the spot position is steady.

MILK SUGAR.—B.P. American in 200-lb. barrels is again cheaper as offered at 75s. per cwt. B.P. finest Dutch is also cheaper; 2-cwt. cases, 82s.; 2-cwt., 80s. 6d.; and 10-cwt., 80s. per cwt.

PARAFORMALDEHYDE (100 per cent. powder), in one-cwt. kegs, is steady at about 2s. 2d. per lb., and in smaller parcels up to 2s. 4d. to 2s. 5d. per lb.

PARALDEHYDE.—For quantities in carboys dealers' prices are cheaper at about 1s. 3d. per lb.; in cases, about 1s. 5d.; and in bottles, about 1s. 7d. per lb.

PHENACETIN.—The quoted prices on spot continues to be given as 4s. 9d. to 4s. 10d. per lb., but only very small business would be done at these figures. Continental offers are cheap.

PHENAZONE.—The spot position is fairly steady with actual selling prices rather under the quoted rates of 6s. 8d. to 6s. 9d. per lb.

PHENOLPHTHALEIN might be booked at a shade less than the quoted spot prices of 4s. 9d. to 5s. per lb.

POTASSIUM PERMANGANATE (B.P.)—Holders quote quantities in one-cwt. drums at about 7½d., and smaller lots at 7½d. per lb.; some business continues with the market steady.

RESORCIN continues to be quoted at about 4s. 9d. per lb. by dealers, who might accept a shade less for good business.

SALICYLIC ACID (B.P.) is unchanged with the market rather favouring buyers; five-cwt. lots, about 1s. 4d. per lb.; smaller lots, 1s. 4½d. to 1s. 5½d. per lb.

SALOL is steady although quiet at from 3s. 6d. to 3s. 9d. per lb., according to quantity.

SODIUM BENZOATE (B.P.)—Prices for one-cwt. lots are close up to 2s. per lb., while something less would be taken for large quantities.

SODIUM SALICYLATE (B.P.) keeps very steady with a fair volume of business coming on the market. Crystals and powder, 2s. 2d. to 2s. 4d. per lb., according to quantity.

SULPHONAL is again cheaper, with holders quoting down to about 13s. 3d. per lb. Market dull.

TANNIC ACID.—*B.P. leviss* is steady on a quiet market at 2s. 10d. to 2s. 11d. per lb.

TARTARIC ACID.—Dealers' prices continue at the comparatively cheap figures of 11½d. to 1s. per lb., less 5 per cent. for foreign make.

TERPIN HYDRATE is steady on a dull market, with dealers quoting at 1s. 8d. to 1s. 9d. per lb.

THYMOL in 14-lb. tins is steady on a flat market at about 16s. 6d. per lb.

VANILLIN (100 per cent.)—Spot quotation continues at about 25s. per lb., with little interest shown by buyers.

The following are makers' prices (per lb., unless otherwise quoted):—Acid camphoric, 21s. to 19s.; iron ammonium citrate: B.P., 2s. 3d. to 1s. 11d.; U.S.P., 2s. 2d. to 2s.; green, 2s. 11d. to 2s. 6d.; mercurials: red oxide, 5s. 4d. to 5s. 2d.; corrosive sublimate, 3s. 9d. to 3s. 7d.; white precipitate, 4s. 8d. to 4s. 6d.; calomel, 4s. to 3s. 10d.; potassium citrate, 2s. 2d. to 1s. 10d.; sodium citrate, B.P.C. 1911, 1s. 11d. to 1s. 7d.; U.S.P. ditto, 2s. 2d. to 1s. 10d.; sodium nitroprusside, 16s.; sodium sulphide, pure recryst., 1s. 2d. to 10d.; ether, 720, 1s. 5½d. to 1s. 1½d.; ether, 720 purif., ex s.v.m., 2s. 3d. to 1s. 11d.; potassium acetate, 1s. 4d. to 1s. 1d.; terebene, 2s. 3d. to 2s.; acid phosphoric, 1.750, 1s. to 11d.; cadmium sulphate, pure, 4s. 3d. to 4s.

Industrial Chemicals, etc.

London, April 15.

THE market shows no change of any importance, having been closed over the holidays. Sulphur is rather firmer.

ACETIC ACID keeps steady but rather quiet in demand. 80 per cent. technical, £38; 80 per cent. pure, £40 per ton, in barrels; 99 to 100 per cent. glacial, £67 10s. per ton, in glass demijohns, ex wharf, London.

ACETONE is now steady, and some business is being done. B.G.S. quality, in drums, is about £72 to £75 per ton.

ALUM on spot is steady as quoted at about £9 to £9 5s. per ton, for lump, in casks.

AMMONIA (ANHYDROUS), ex store, in small quantities, is quoted at about 1s. 4½d. per lb. for 99.95 per cent., in loaned cylinders.

AMMONIUM CHLORIDE is steadier after last week's reduction, with dealers offering on spot at about £28 per ton, in casks, for grev galvanisers' quality.

ARSENIC.—There is no amelioration in the state of the market, and the current quotation of the Cornish mines is about £25 per ton, f.o.r. The output of the leading Cornish mine for the past year was about 533 tons.

BARIUM CHLORIDE (98 to 100 per cent. prime white crystals) is steadier, and a little inquiry has been received; on the spot at about £10 2s. 6d. to £10 5s. per ton.

BARYTES is steady on a quiet market at about £3 10s. to £5 10s. per ton c.i.f., to arrive, according to quality.

BLEACHING POWDER (35 to 37 per cent. available chlorine) continues to be quoted at about £9 5s. to £9 10s. per ton, ex store; market quiet.

BORAX.—Makers' prices are unchanged: commercial quality, crystals, £25; granulated, £24 10s.; powder, £26;

extra fine powder, £27 per ton; B.P. quality, crystals, £30 to £31; powdered, £30; extra fine ditto, £31 per ton. Boric acid (see "Pharmaceutical Chemicals").

COPPER SULPHATE.—Certain large makers seem fairly well satisfied with the amount of export business secured for weeks past. Makers' terms are about maintained at the recent level of values, the full range of which is from £24 10s. to £25 5s. per ton, f.o.b. for casks, less 5 per cent. discount. Continental make is offered at £22 10s. c.i.f. U.K.

CREAM OF TARTAR continues to find business at about 78s. to 79s. per cwt., less 2½ per cent., for one-ton lots or more.

EPSOM SALT is steady, with dealers' prices about £4 12s. 6d. per ton for commercial quality, in bags, spot; slightly cheaper for quantities to come forward. B.P. quality is 25s. per ton more.

FORMALDEHYDE (40 per cent. by volume) is easier as quoted in the neighbourhood of £38 to £40 per ton, and some forward business is reported.

GLAUBER'S SALT, although quiet, is steady at the spot value of about £3 10s. per ton for commercial quality, in bags.

LEAD PRODUCTS.—Dealers' quotations are unsteady and generally at a lower level, with the market not attracting much business. Lead acetate, brown, £43; white, £44 per ton, spot. Litharge, imported, about £44; red lead, about £43 10s.; white lead, dry, about £44; ground in oil, about £45 per ton, c.i.f. London. Home makers made another reduction of £1 per ton on Wednesday in lead oxides and white lead. Quotations now stand as follows:—Red lead and litharge for the home trade, £47 10s.; white lead in oil, £49; and dry white lead, £48 15s., the two latter being f.o.b. for export.

OXALIC ACID is very steady and fair business continues here, with dealers' prices at 3½d. to 4d. per lb., ex wharf.

POTASH CAUSTIC.—Business continues at the steady figure of £30 per ton for small spot lots of 88 to 92 per cent. solid, in drums.

POTASSIUM CARBONATE is on the firm side, with good business being done. 90 to 92 per cent., £24 10s.; 96 to 98 per cent., £25 10s. to £26 per ton, in casks spot.

POTASSIUM CHLORATE on spot and forward is quoted close up to 3d. per lb. on a steady market.

A Washington message states that Mr. Coolidge, acting under the flexible provisions of the Tariff Act, has ordered an increase in the duty on potassium chlorates from ½c. to 2¼c. per lb.

POTASSIUM PERMANGANATE.—Dealers appear to be doing good business, with large quantities of commercial quality offered at about 6½d. per lb., in drums.

POTASSIUM PRUSSATE.—Spot yellow is quoted at about 7d. to 7½d. per lb., with the price for forward positions a shade cheaper than this.

SAL AMMONIAC.—Dealers' prices are steady and are attracting some business: dog-tooth crystals, £41; medium, about £38; fine white crystals, £24 per ton, in casks.

SODIUM ACETATE continues to show a better tone, and prices on spot are steady in the region of £21 10s. per ton.

SODIUM CYANIDE is steady at about 7d. per lb. f.o.b. for 100 per cent.

SODIUM HYPOSULPHITE.—Dealers' prices are steady, but business is on the quiet side. Pea crystals (photographic), about £13 10s. per ton, in one-cwt. kegs; commercial quality, £9 per ton, in casks. British makers' prices for four-ton lots of pea crystals is £14 per ton.

SODIUM NITRATE remains quiet in London, with prices unchanged: 96 per cent., £13 5s.; refined, £13 7s. 6d. per ton, f.o.r. docks, London. Liverpool prices about 2s. 6d. per ton less.

SODIUM NITRITE is slow, with the price of 100 per cent. basis in London about £23 15s. per ton. Manchester prices are more attractive.

SODIUM SULPHIDE remains almost idle, with prices unchanged: 60 to 62 per cent., solid, £13 7s. 6d.; broken, £14 per ton, in drums.

SULPHUR.—The tendency is somewhat firmer, the quotation for American and Sicilian crude being about £5 10s. a ton, delivered Manchester. Refined stands at £9 10s. per ton for flowers and £7 15s. for roll, delivered London warehouse. The Sicilian output for last year was reported at 223,577 tons, against 206,238 tons for 1923, while the exports totalled 312,079 tons, compared with 217,172 tons for 1923. There was a reduction in the stocks in Sicily last year of about 70,000 tons to 175,700 tons. This, therefore, gives some idea of the extent to which Italy has benefited from the combine with the American producers. The position is dealt with in an editorial article on p. 579.

COAL-TAR PRODUCTS, ETC.—Conditions in this market show no change since the holidays. Business has been slow, but the general tone is fairly steady. ANILINE OIL continues to be sold occasionally by makers and dealers, with prices equivalent to about 7½d. per lb., naked, at works. BETA-

NAPHTHOL is steady but quiet at about 1s. to 1s. 1d. per lb. TOLUOL holds up to its recent higher rates, with business about. Pure, 1s. 8½d. to 1s. 9d.; 90's, fully 1s. 6d. per gallon. XYLOL.—Pure, 3s. 3d.; commercial, 2s. 3d. per gallon; market flat. CREOSOTE OIL is steadier after the reduction notified last week, but business has fallen off badly; quoted in bulk quantities at 6½d. to 6¾d., ex works, and 7½d. to 7¾d. per gallon, f.o.b. CARBOLIC ACID crystals remain at last week's cheaper price of about 5d. per lb., f.o.b., in bulk packing, but business is slow. CRESTLIC ACID shows no change, with the market quiet: 97 to 99 per cent., 1s. 9d. to 1s. 10d. per gallon. NAPHTHALENE finds but little business, with dealers offering close up to £15 per ton for flakes. PURE METHYL ALCOHOL seems of little interest to buyers, with dealers' prices about £48 to £50 per ton, c.i.f., in drums, to arrive. PYRIDINE keeps up to its former price of about 19s. per gallon, and is in occasional demand. HEXAMETHYLENE remains dull, with dealers quoting at about 2s. 10d. per gallon. PITCH remains neglected, with the quotation nominal at about 41s. per ton, f.o.b. East Coast.

Fixed Oils, etc.

BUSINESS has been quiet throughout since the reopening after the holidays. There is little change to record. ACID OILS.—Market quiet, with prices unchanged; coconut and palm kernel, 40s. 6d.; groundnut, 37s. 6d.; soya, 34s. 3d.; all spot. CASTOR.—Still dull, at level prices; pharmaceutical, 69s.; first pressings, 64s.; second pressings, 63s.; all spot, in barrels, in not less than one-ton lots. COCONUT is very quiet, and prices unchanged; deodorised, spot, 50s.; Ceylon, 46s., c.i.f.; Cochin, 53s., c.i.f. COTTON is steady on a dull market; deodorised, 50s.; common edible, 48s.; soapmaking, 46s.; crude, 41s.; all spot. GROUNDNUT is firm at about level prices; deodorised, spot, 55s. 6d.; crude Oriental, 52s., c.i.f. PALM KERNEL is quiet and unsteady; deodorised, 47s.; crude, 41s. 6d.; all spot. PALM is steadier, with prices about the same as last week; Lagos, 39s.; softs, 38s. 6d.; mediums, 40s.; hards, 40s. 6d.; bleached, 41s. 6d.; all spot. RAPE.—Market very flat, and at easier prices; refined, 55s.; crude, 50s.; all spot. SOYA.—Still dull, quoted prices unchanged; deodorised, 49s.; crude, 42s.; all spot. LINSEED (raw, naked).—Quoted prices for all positions are cheaper, but the market is much healthier; on spot, 45s. 9d.; April, 44s. 9d.; May-August, 45s. 6d.; September-December, 44s. 7½d.; Hull, on spot, 45s. 3d.; May-August, 45s. 3d.; September-December, 43s. 3d. The outlook is uncertain, while the discount on forward oil, which is still comparatively small, has shown a tendency to widen. The official forecast of the Indian seed crop is awaited with much interest, and is expected to be very satisfactory. This may influence sentiment towards still easier prices, although recent private estimates were widely divergent, ranging from 450,000 to 530,000 tons. The quantities afloat to this country are still very limited. TURPENTINE.—Prices have fluctuated somewhat, but only little business has been done, with no special feature. The London deliveries last week amounted to 1,622 barrels, making an aggregate of 23,381 barrels since January 1, which compares with 26,904 barrels same period last year, while the stocks were returned at 19,833 barrels, including 492 barrels French spirit. On spot, 65s. 6d.; May-June, 63s. 9d.; July-December, 65s. WOOD.—Hankow in barrels is weak on a dull market, as quoted, at 61s. spot.

LUBRICATING, MINERAL, AND BURNING OILS.—Conditions in this section show no change since the reopening after the holidays. Business has been quiet throughout. BENZOL.—Prices quoted are firm at last week's higher values; crude 65's, about 1s. 3d. to 1s. 3½d. per gallon, ex works, in tank wagons; pure, about 1s. 1½d. per gallon, ex works, in tank wagons. FUEL OIL.—Market quiet, values unaltered; 950 gravity, £4 2s. 6d.; 890 gravity, £4 17s. 6d. per ton, ex tank. PARAFFIN WAX AND SCALE.—Steady to firm, with some business; wax, 3½d. to 5½d. per lb., according to melting point, in bags; scale, 27s. and upwards per cwt., c.i.f. United Kingdom port. PARAFFIN OILS.—Market unchanged, and steady; American standard white, 1s.; water white, 1s. 1d. per gallon, barrels free; Russian prime white kerosene, 6½d. to 7d., ex tank; 7½d., buyers' barrels filled free; 10½d. per gallon, barrels free, ex wharf, London. PETROLEUM JELLIES.—Actual sales prices are generally below quoted rates; white to snow white, £56 to £60; amber and yellow, £24 to £25 10s.; red vet., £21; dark stiff green, £18 per ton, drums and barrels free, ex wharf, London. WHITE OILS are quiet and unsteady, as quoted; special No. 1, £33; No. 1, £30; No. 3, half-white, £26; No. 4, half-white, £18 per ton, barrels and drums free, ex wharf, London. SOLVENT NAPHTHAS are unchanged, with 90 to 160 finding fair business at about 1s. 4d. per gallon; heavy 90 to 190 remains dull at 1s. 1d. per gallon. LUBRI-

CATING OILS.—The spot market continues unchanged, but perhaps a little in buyers' favour; pales, £12 to £24; reds, £14 to £26; dark cylinders, £15 10s. to £36 per ton, less 2½ per cent. ex wharf, London; soluble oil, £20 to £29 per ton net. No. 1 RUSSIAN OIL is steady, and meeting with some business at £18 15s. per ton, less 2½ per cent. ex wharf, London.

ANIMAL AND FISH OILS, TALLOW, ETC.—Australian tallows remain flat, and spot values are again a little easier; South American products for shipment are also dull, but prices are maintained; fish oils are very quiet. BONE GREASE is quiet and unsteady, as quoted; pale water, 41s.; brown water, 39s.; benzine, 37s. 6d.; all spot. NEAT'S FOOT OIL is firm, as quoted for shipment, at 5s. 1d. per gallon, c.i.f. LARD OILS.—Markets quiet, at unchanged prices; English, under 5 per cent., 63s.; pale horse oil, 45s. per cwt., London. FISH OILS.—Prices quoted are cheaper, with the market very dull; coast cod, 33s. 6d.; brown whale, 32s. 9d.; dark whale, 31s. 3d., all spot; Japanese, in cases, about 30s., c.i.f. TALLOW (AUSTRALIAN).—Prices are slightly cheaper again, and the spot market continues quiet; fine mutton, 47s.; sweet beef, 45s. 6d.; good mixed, about 44s. 3d.; inferiors, about 41s. 3d., all spot. SOUTH AMERICAN TALLOW.—Shipment prices are unchanged; first beefs, 43s. 6d.; second beefs, 41s. 6d., all c.i.f. OLEO OIL.—North American extra for shipment is cheaper at 67s. 9d., c.i.f.; market quiet. OLEO STEARIN is firmer; South American No. 1, 55s.; No. 2, 52s., all c.i.f. PREMIER JUS is fairly steady but quiet; South American extra beef, 48s. 6d.; Australian mutton, 49s. 6d.; South American mutton, 50s., all c.i.f.

Reparations Recovery

By an Order in Council issued on April 9, Sections 1, 2, and 5 of the German Reparation (Recovery) Act, 1921, were suspended on and after April 10, 1925. Accordingly the 26 per cent. levy will not be payable by British importers on goods entered after midnight of April 9-10.

German Chemical Markets

SINCE the beginning of the year the German chemical markets have been exceedingly quiet, with practically no business of any importance to report. Compared with the slight improvement towards the end of the past year, the present position shows a decided tendency to become even worse, and this is emphasised by the chemical auctions which latterly have been taking place with increasing frequency on the Hamburg chemical exchange, a chemical auction being quite unheard of, in ordinary circumstances. Bromides are now quiet, and it remains to be seen whether the price convention, originally concluded for one month, will be prolonged, as is generally expected; quotations of stocks in dealers' hand are still appreciably below the new convention prices. Potassium chlorate continues to be in very brisk demand for export to Japan and the United States, and the price, which stood at \$9 at the beginning of the year, has advanced week by week, until it now stands at \$13.50; it is interesting to note that most of the orders are being placed with the works direct. Tartaric acid has also advanced in price, but Dutch and French makers are offering supplies at 3 to 4 per cent. below German quotations.

A Quarter's Trade

THE imports into Great Britain last month increased to £112,861,032, a rise of £9,165,220 compared with March last year, while the British exports for the month increased by £9,200,512 to a total of £70,303,279; re-exports were valued at £12,776,536 or £75,780 more than in March last year. Concerning chemicals, drugs, dyes and colours, the following figures are of interest:—

| | 1923 £ | 1924 £ | 1925 £ | + or - in 1925 compared with 1924 |
|-------------------------------|-----------|-----------|-----------|--|
| March imports .. | 1,246,500 | 1,157,525 | 1,383,610 | + 226,085 |
| Jan.-March imports | 3,579,010 | 3,498,025 | 3,944,961 | + 446,936 |
| March Brit. exports | 1,912,012 | 2,033,756 | 2,192,272 | + 158,510 |
| Jan.-March British exports .. | 6,111,051 | 6,799,201 | 6,469,927 | - 329,274 |
| March re-exports .. | 114,856 | 82,860 | 130,240 | + 47,560 |
| Jan.-March re-exports | 373,911 | 302,904 | 335,156 | + 32,252 |

The increase in British chemical business last month was a feature: on the quarter's results, however, there is a decline of £329,274 compared with 1924, but taking the comparison back to 1923 the increase is £358,876. There was a substantial increase in the exports of sodium compounds so far as regards quantity, compared with the corresponding quarter last year, but the values fell off.



Letters for this section should be written on one side of the paper only. Correspondents may adopt an assumed name for purposes of publication, but must in all cases furnish their real name and address to the Editor.

Cannabis Indica in Corn Preparations

SIR,—Since the addition of extract of Indian hemp and preparations thereof to the Poisons Schedule, I note that many pharmacists are disturbed in consequence of its possibly interfering with their sales of corn plasters, etc., containing the extract. If, however, the amount present is reduced to a small percentage, say, 3 per cent. to 5 per cent., no harm or loss of activity can result, and if it is desirable to bring up the colour to a suitable green, chlorophyll may be used; but my chief object in writing is to say that there is no authority, as far as I know, for the statement so commonly made that Indian hemp acts as a local anodyne, therefore I contend it has no therapeutic value in the above preparations. For thirty years I dispensed at Guy's and University College Hospitals, and also lectured on *materia medica*; and during the whole of this time I did not meet with a single prescription in which Indian hemp was employed locally to relieve pain, and I fail to find any authoritative reference in support of this contention. Moreover, I think it will be no loss if the Indian hemp was altogether omitted and chlorophyll only employed. How it came about that Indian hemp was used for the above purpose I cannot understand, especially as there are better and well-known local sedatives that might have been used. As the public have become accustomed to the green colour of salicylic plasters and paints, it is of course as well to retain the green colour; but we do not want to be quacks and ascribe properties to our preparations which they do not possess.—Yours faithfully,

A. W. GERRARD.

Oldbury.

Retail Trade Problems

SIR,—In reply to "A Disgusted Chemist" (*C. & D.*, April 11, p. 556), it is "possible to stop some of this" unfair price cutting by whole-hearted co-operation with those manufacturers who endeavour to reach the public through the chemist. It is distressing to walk down a street and see the same articles displayed with equal prominence in pharmacies and grocery stores. Meanwhile, many preparations sold only through chemists languish on their shelves behind the scenes until actually called for. Those manufacturers who do restrict sales to chemists deserve the more support from each individual chemist.—Yours faithfully,

THOMAS KERFOOT & Co., LTD.

Bardsley Vale.

SIR,—There is force in "Prahs's" phrase, "originality and personality." We pharmacists cannot get rid of the keen competition existing in present-day trade. Yet we can throw our energy and personality into our calling if we mean to earn a living. Yet, methinks, numbers of our recently qualified men lean too much on the value of their certificate and give 50 or 75 per cent. of their time to the "sports and entertainment section," instead of creating a personal connection in one's own pharmacy.

Yours, etc.,

AN OLD SCOT (14/4).

SIR,—Your correspondent "Prahs" (*C. & D.*, April 11, p. 556) misses the point of the argument when he writes, "having had the opportunity of supplying a customer with an article on the P.A.T.A., and therefore one which cannot be obtained from a competitor at a lower price." This is what much of the correspondence has been about, that customers obtain P.A.T.A. goods at lower than the fixed prices, not from chemists, of course, but from traders who are competitors all the same, and more

troublesome competitors than other chemists. If, for example, "Prahs" was in the habit of buying a well-advertised brand of cigarettes at a shilling a packet at his usual tobacconist's, and one day saw the same packet marked at tenpence in another shop in the same street, how long would he continue to pay a shilling for his smoke? The only thing that would count would be the twopence; and that is exactly what the chemists' customers think. The whole thing boils down to the fact that we cannot have minimum retail prices for pharmacists, with penalties in the shape of a stop list, unless the scheme is applicable to other dealers in the same goods as well; and unless the P.A.T.A. can solve the problem of supplies to these people, I am afraid that it cannot expect to last.—Faithfully yours,

NONSTOP (14/4).

By-Laws Regulations

SIR,—At the special general meeting held in February I warned the members present that, if they passed the by-laws, the Council would not give the slightest consideration to their views when it came to formulate the regulations. Time has proved my prophecy to be true. The delegates' meeting in March has been nothing more than a farce, and now we have before us the final draft of regulations as to which the members had no say. Appendix 1, dealing with the examinations accepted as preliminary examinations, has been plagiarised from the syllabus of the General Medical Council, without thought or consideration. The continental examinations which are accepted for the registration of students are antiquated and out of date. The attempt which is being made to give an impression that the standard of the Preliminary examination has been increased by enumerating a score of universities is mere humbug. The Junior College of Preceptors' examination still holds good, and the majority of candidates take this examination, which is not accepted by the Medical Council or most of the respectable professions. The time-limit for the new regulations is fixed for 1928, which does not give an opportunity to the existing apprentices and student-associates to take the Qualifying examination under the regulations under which they entered the profession. In Appendix 4, dealing with the Qualifying examination of the chemist and druggist, candidates in practical chemistry will be required to identify by chemical tests twenty-three chemicals. Is it too much to expect a pharmacist to know the chemistry of the British Pharmacopoeia? Is salicin more important in pharmacy than aspirin? Why make a farce of the practical chemistry examination by selecting twenty-three chemicals out of the Pharmacopoeia, and even those not the most important ones? In Appendix 5, dealing with the Pharmaceutical Chemist Qualifying examination, the syllabuses for botany and chemistry have been plagiarised from the University of London regulations relating to the bachelor of science degree (not the bachelor of pharmacy degree). The original form will be found in the University of London regulations, p. 323. It is very sad indeed that, with twenty-one members on the Council and a research committee on which we have a number of experts on educational matters, it was found necessary to plagiarise the syllabus of a university for which, whatever might be claimed, it certainly cannot be said that it satisfies our professional requirements. The value of a diploma is judged by the standard of its syllabus, and the requirements for practical chemistry (and this is the main subject in the Pharmaceutical Chemist examination) stamp the future diploma of a pharmaceutical chemist as a "scrap of paper." The most abominable part of the regulations, and the biggest farce ever perpetrated on the Pharmaceutical Society, we find in Part 4, Section 32, of the regulations. By this section a person who shall enter for the degree of bachelor of pharmacy of the University of London or any other university approved by the Council, and shall fail to pass, but shall reach a standard to be decided upon by the Council, shall be awarded a certificate entitling to registration as a chemist and druggist. It is important to point out that this section did not appear in the first draft of the regulations; nor was it mentioned at the delegates' meeting. How is the Council going to control the university examinations,

and how will it know the standard which university failures have reached? What is the standard to be fixed by the Council, and why is it not stated in the regulations? The new way of qualifying as a pharmacist in this country is by going in for a university degree, failing at the examination, and the candidate is then presented with the diploma of chemist and druggist by the Pharmaceutical Society of Great Britain. It is too ridiculous for words. All that is left to the members now is to protest to the Privy Council. Will every qualified pharmacist, whether a member of the Society or not, write individually and get associations and branches of the Society to write to the Privy Council begging them to reject these disgraceful regulations, or withhold their approval until the regulations have been fully considered by legally qualified pharmacists in this country?—Yours, etc.,

JULES COFMAN-NICORESTI.

113, Leadenhall Street, E.C.3.

The Labelling of Poisons

SIR,—Quite recently I put aside for serious consideration two documents submitted by the respective secretaries of the Pharmaceutical Society and the Retail Pharmacists' Union, both relative to the present and immediate future sale of poisons. Easter Monday happened to be the appointed time, and, after a considerable study of the said documents, I am left wondering—profoundly wondering. It is quite logical (but very very funny) to read that corn paint containing ext. cannab. ind. and depilatories containing barium sulphide, must be labelled "poison"; but if any individual contemplates getting off this mortal coil by drinking half a dozen bottles of corn paint or making a depilatory bun, I sincerely hope that he or she will come to me for the goods. I would be amused; and, after taking the money, I'd wish 'em "Jolly good luck," and, *sotto voce*, "Good riddance." Sweet, sweet logic that, for the prevention of accidents, all preparations containing poison should be labelled such—but will someone kindly tell me when a poison, prescribed by a medical man, ceases to be a poison? And we are up against this monstrous absurdity of indicating on the label a minute percentage of morph. mur.—and thereby popularising the same—when sold by a chemist, in order to protect an ignorant public; whereas a whole host of poisonous ingredients may be prescribed by a doctor and supplied by a chemist, and the safety of the public can "go to blazes." The sole consideration *re* the sale of poisons should be the protection of the public from preventable accidents, and I will uphold any poison law designed to that end; but to observe logic in the case of labelling corn paint "poison"—and who would try to kill themselves with corn paint?—and then to ignore logic in permitting a host of poisons in a bottle of medicine to be offered to the general public without a "poison" label, simply because a doctor prescribed it, renders the Act in this respect simply farcical—as it truly is. Can anyone tell me of any advantage to be derived by anyone from these new regulations? I always had the idea that writing scripts in "dog"—mongrel dog—Latin was to prevent patients knowing what they were taking; and here we are compelled to reverse that very reasonable unwritten law. Those who have assisted in drawing up these new regulations have evidently forgotten the publicity given to violations of the Dangerous Drugs Act. They have also forgotten a well-known business custom, viz., that advertising creates popularity; and so we are forced to hang further trouble round our necks by advertising a knowledge that the ignorant public would be much better without. The last paragraph of Part II involves another illogical absurdity. Please note that arsenic is a poison, and there is no limit to an arsenic content as expressed with carbolic acid, chloroform, coca, etc.; therefore any preparation containing arsenic should be labelled "poison." Well, citric and tartaric acids, and most citrates and tartrates, contain arsenic; so do borax and bismuth salts. Logically these should be labelled "poison"; for although there is an accepted limitation to this contamination in these salts in the Pharmacopœia, there is no indication that

this new poison foolery accepts this. If it does, why not accept a similar content in any chemist's preparations without calling it poison? To sum up—the public will not be protected any more than formerly, for they can still be poisoned by a bottle of doctor's medicine without any warning. Also, they may be induced by this foolish rule to try the morphine and heroin habit, through the simple fact that they know they are getting it. The chemist's life is going to be made more intolerable than it already is, and the only class that appears to me to benefit is the printers. I wished I was a printer, instead of a qualified pill-monger.—Yours faithfully,

GEORGE F. CORRALL.

Enfield Wash.

Our "Juniors"

SIR,—I am glad to see that at least two juniors have been sufficiently interested to answer my criticisms of careless and untidy habits of working; but as a general rule it is not the man who is keen enough to read and write to his trade journal who is the offender in this respect. In reply to "Aloes," I would say that we all have to learn to serve before we can rule; I have had my share (and more than my share) of batman's work when an assistant, and in consequence never tell a junior to do anything I would not or could not do myself. In reference to salaries, apart from the law of supply and demand, when "Aloes" commences a business of his own he will probably be very pleased if he makes enough to pay himself a tram conductor's wage to start with; there must be many small proprietor pharmacists who are not drawing much more for their work than they pay the assistant; it is not the "guy'nor" who is to blame, but the condition of the trade and competition. Personally, I cannot work on an untidy counter: before dispensing, I invariably clear up and dust the place, and, no matter how many scripts I have to deal with, can leave it in the same condition at the end. In fact, I do not see how the untidy dispenser can get through his work expeditiously: a man who has practised methodical working can do double the amount in the same time as a man who is slovenly. "Naretev" may be right in some cases when he says that the fault is due to bad training; but this opens up another and very large question which I am not prepared to discuss now. Method means money, in the saving of both time and material.—Faithfully yours,

METHODICAL (29/12).

Subscribers' Symposium

For interchange of opinion among "C. & D." readers and brief notes on business and practical topics.

Crane Oil

E. H. F. (10/3) writes: Is there really such a thing as "Crane oil"? It is asked for by anglers.

Glycerin. Amyli

Referring to the note on glycerinum amyli in the *C. & D.*, April 4, p. 490, Mr. P. J. Pinson, dispensing chemist, 186 Mare Street, Hackney, London, E.8, gives the following method which he has employed with satisfaction for fifteen years: Heat about four-fifths of the glycerin in a suitable container until acrolein fumes begin to arise, then add with constant stirring the starch, water and remainder of the glycerin previously mixed, continuing the stirring until finished, which should not be more than two minutes.

In Testing for Traces of Glucose

in urine and other liquids, the method of admixture does not readily reveal their presence. If, however, the Fehling's solution be warmed as usual and a little of the suspected solution, say $\frac{1}{8}$ of an inch up the ordinary narrow test-tube, be poured carefully on the surface of the reagent, a faint ring of cuprous oxide makes its appearance almost immediately. Whereas, if the same quantity be added to the Fehling's solution, shaken, and then further warmed, the presence of the ring is liable to escape notice.—Abel Scholar (20/2).

Legal Queries

F. H. (2/4).—An unqualified person requires a patent medicine licence for the sale of a headache powder consisting on an entire drug.

W. B. (30/3).—We were in error in stating that Digipuratum is a poison within Part I of the schedule. We find that it is a preparation of digitalis, and is therefore a Part II poison.

T. A. (31/3).—Depilatories containing barium sulphide (they do not all contain this) should be removed to the drug department if there is not a chemist in the toilet goods section who can make or superintend the sale.

H. C. R. (1/4).—The value of a lease can only be determined by a consideration of local circumstances. It may be a liability on account of the conditions it imposes, and in the circumstances it would be unusual to pay a premium to the landlord.

R. W. & Co. (1/4).—(1) The revised Poisons Schedule published in the *C. & D.*, April 4, was in force after April 3. (2) Preparations containing extract of cannabis indica become poisons within the meaning of Part II of the Poisons Schedule.

J. M. W. L. (28/3).—The cocaine dental anæsthetic required by the dentist can be dispensed by you on the dentist's signed order. Label "for dental purposes only," and with the total amount of cocain. hyd. contained therein.

A. B. (6/4).—The "business of a chemist and druggist" can only be carried on by a registered person; therefore it is not advisable for an unqualified person to use "pharmacy" as a description of his shop, although it is often done. The titles "chemist," etc., may only be used by qualified persons.

Edison (26/3).—(1) The label of the lung tonic requires to have on it the word "Poison." (2) *Tr. chlorof. et morph.*, B.P. '85, sine acid. hydrocyan. dil. in a mixture does not require when sold an entry to be made in the poisons-book. (3) *Tr. belladonna* contains 0.035 alkaloids, and the limit in Part I is 0.1, so that the tonic comes within Part II of the Poisons Schedule.

A. A. & Co. (30/3).—(1).—The Home Office regard any dilution of pulv. ipecac. co. with a medicament less than 1 in 5 as coming within the Dangerous Drugs Acts. This ruling brings your cachets within the Act. (2) D.D.A. poisons must be kept in the manner directed by the Poison Storing Regulations made under Sec. 1 of the Pharmacy Act, 1868, but very poisonous substances should be kept in a poison cupboard.

R. S. L. (9/4) asks if he is liable to income-tax. He has a salary of £208 per annum, with rooms rent free over the business, and his light bill is paid. He is married, and has one child. [It is assumed that he occupies the rooms in connection with his employment, and that he is not at liberty to sell or dispose of them. No income tax is payable, as the assessment would be on the salary only, and this is more than covered by the allowable deductions.]

H. R. (30/3).—There is no test to prove whether cannabis resins are inert or not except the physiological method. Next January the corn paint should be labelled with the proportion of herb, extract, or resins which are used, as poison in Part II of the Poisons Schedule. The Pharmaceutical Council has no power to exclude any poison under the Labelling Order. The formula of a "known, admitted and approved" remedy can be altered and re-registered in the *C. & D. Diary*, 1926.

Gaicho (11/4) ordered some goods from the manufacturers in October last. In December the firm pressed for payment, and as "Gaicho" had not used any of the goods and still had a fair stock, he returned the parcel, unopened, to the manufacturers, carriage paid. They still press for payment of the account; how does "Gaicho" stand? ["Gaicho" had no legal right to return the goods and if he still refuses to accept and pay for them he is liable to the manufacturers in damages

for non-acceptance. The amount of the damages would be assessed by the Court having regard to the facts of the case and the nature of the goods. Probably the manufacturers would be awarded the amount of their loss of profit in the transaction.]

Tyro (4/4) decided to sell a house and agreed to pay an estate agent £10 if the house were sold within a month. Five days later "Tyro" sold the house himself and immediately informed the agent. The latter claimed £50 commission upon the sale, alleging that in order to sell the house he had interested two or three other persons in the transaction, who demanded a share of the commission. The agent also said that he could prevent the sale, and, under protest, "Tyro" paid the sum claimed. "Tyro" is willing to pay the £10, and asks whether he can compel the agent to return the balance of £40. [Unless the agent effected the introduction of the purchaser of the house, or was otherwise instrumental in arranging the sale, he is not entitled to commission upon the transaction. On the other hand, "Tyro" made a serious mistake in paying the sum demanded if he does not admit that the agent's efforts in any way contributed to the sale. Whether proceedings against the agent for the recovery of the £40 would succeed depends, in our view, entirely upon the exact terms of the original arrangement with the agent and the circumstances in which "Tyro" got into touch with the purchaser.]

R. S. W. (9/4) is manager of a business, in Scotland, of which the proprietor has recently died. "For the purpose of assessing profits," a deed of partnership has been entered into between the late proprietor's widow and "R. S. W.," under which the former undertakes to bear any losses that may occur. Could "R. S. W." be held liable to the creditors in the event of the business becoming bankrupt in spite of this provision in the deed? The business will still be carried on under the name of the late proprietor. Is it necessary to disclose the names of the widow and "R. S. W." on the business stationery, and to inform all wholesale firms from whom goods are bought of the existence of the partnership? [Assuming that the deed in fact creates a partnership, the position according to English law is as follows: "R. S. W." is personally responsible for the debts and liabilities of the firm and the creditors are not in any way bound by the terms of the partnership deed which concern only "R. S. W." and the widow. Consequently, in the event of insolvency, "R. S. W." will be liable to be made bankrupt as well as the widow. As the firm is trading under the old name, the business must be registered with the Registrar of Business Names, and the names of the partners must be stated upon all business stationery. On the other hand, there is no need specially to inform wholesale firms of the partnership. In Scotland the legal position may be different.]

Miscellaneous Inquiries

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

G. L. G. (7/2).—LIQUID USED FOR CANKER IN HORSES.—This is a pale yellow liquid of sp. gr. about 1.26, yielding 23 per cent. total solids at 100° C. It contains no organic matter. It consists essentially of antimony trichloride, zinc chloride, and (apparently) sodium bisulphate, probably in about equal proportions.

N. B. P. (25/2).—MILK-NEUTRALISING POWDER.—This is a white granular powder, with a slightly yellowish tint. It consists of ordinary sugar with a little over 1 per cent. of magnesia, and a small amount of another substance, which appears to be milk powder.

W. E. P. (23/3).—VARNISH MAKING.—The following are useful books: Livache & McIntosh's "The Manufacture of Varnishes," Vol. I and II, published by Scott, Greenwood & Co., 8 Broadway, Ludgate, London, E.C. The first volume deals specially with spirit varnishes.

A. L. L. (23/3).—We have no formula of the kind you require, but it would not be difficult for you to devise one after a few experiments.

H. R. C. (23/3).—SELLING DRUGS FROM VAN.—A man in charge of a travelling van from which goods are sold requires a hawkers' licence, obtainable from the local Excise officer for £2 a year. A certificate of character is required from a clergyman or two householders of the parish or place wherein the hawker resides, or from a Justice of the Peace or the local Superintendent or Inspector of Police for the district wherein the Excise officer resides. The hawker, unless he is a qualified chemist, may not sell statutory poisons from the van. He cannot sell stamped medicines, as a licence will not be granted for movable premises, nor can he sell "known, admitted and approved" remedies unless he is qualified. Orders can be taken for these articles to be sent by post from the qualified chemist owning the van.

C. K. T. (23/3).—IODISED SALT.—The variation in the strength of iodised salt offered for sale is due to the fact that the salt may be used sparingly or freely. If used only at the table a strength of 1 of iodide in 50,000 is advised, but for general use (cooking and table purposes) 1 in 200,000 is adopted and used for the Premido salt in this country. These are the strengths recommended by the Swiss Goitre Commission. In New Zealand a strength of 1 in 100,000 is permitted if labelled "medicated salt." In the United States much more concentrated preparations are employed, up to 1 in 500 in goitrous districts. The strength of 1 in 200,000 is, we think, safest for general sale.

W. J. C. (23/3).—The salary of a qualified chemist with the necessary experience is at present 100s. to 120s. per week. If with optical experience, a percentage on the returns of that department is given in addition.

J. G. M. (23/3) — COLOURING SPRATS FOR BAIT.—We think you will find that chrysoidine will be successful as the dye for colouring bait. The colour given is orange. A few experiments will settle the point as to solubility of the dye in formalin.

H. A. (24/3).—The price of the inhalation according to the *C. & D.* costing system is 6s. 10d. The chemist who charges 4s. 6d. does so at a loss.

Fluke (24/3).—SHEEP FLUKE REMEDY.—The capsules to which you refer are a special preparation of male fern, which the makers state is a purified article superior to the ordinary extract. We do not know how the article is purified.

H. P. I. (24/3). — APPRENTICES nowadays generally receive in other than special businesses 10s., 12s. 6d., 15s. per week, respectively, during the three years' apprenticeship. In other cases the payment is 12s. 6d., 15s., and third year 20s. weekly. The remuneration is generally governed by the style of business, i.e., partly pharmaceutical or heavy trade.

D. G. (25/3).—PARA-DICHLOR-BENZENE is a liquid recommended when combined with soap, paraffin wax and cedarwood oil as a remedy for furniture worms or wood-beetle ravages.

Pulv. Infantibus (27/3).—The dose of pulv. hydrarg. subchlor. co., B.P.C., cannot be laid down with mathematical certainty for children of the different ages, for the reason that the child is not a constant. Children take calomel in proportionally larger doses than adults, as follows for a child of:—

| | | |
|---------------|-----|--|
| 6 months | ... | gr. $\frac{1}{8}$ to gr. $\frac{3}{8}$ |
| 12 months | ... | gr. $\frac{1}{4}$ to gr. $\frac{1}{2}$ |
| 2 to 3 years | ... | gr. $\frac{1}{2}$ to gr. $\frac{3}{4}$ |
| 4 to 8 years | ... | gr. $\frac{1}{2}$ to gr. 1 |
| 8 to 12 years | ... | gr. 1 to gr. 1ss. |

The dose of scammony for a child of one year should not exceed one grain, and this is somewhat drastic, although the action is modified by the other ingredients. This and the calomel are the two active ingredients, and each constitutes a quarter of the powder, in this way the dose of 4 grains for a child of one year old is arrived at. Other doses are for a child of two to three years, 6 grains, and four to eight years 8 grains.

B. & S., Ltd. (25/3).—PREVENTING BEDSORES.—Persons who are confined to bed for long periods are apt to develop sores on prominent parts of the body in contact with the bed. This is particularly the case in paralysed persons and where the parts are moist with sweat or urine. The prevention of bedsores is important from the point of view of the comfort of the patient and also as a sign of good nursing. A water-bed is often necessary filled at 70° F.; it is covered with a smooth sheet of macintosh and a draw sheet. Downward pressure is prevented by a "cradle" over the patient. The skin is examined frequently and the parts liable to bedsores are washed three times daily with soap and water and well dried. It is then that sick-bed spirit is applied. Formerly a mixture of spirit (9), glycerin (1) was used. The glycerin being added with the object of preventing cracking of the skin by the spirit. The addition of castor oil to industrial methylated spirit answers the same purpose, and is accepted by the Board of Customs and Excise as a suitable denaturant. The spirit is lightly dabbed or rubbed on by means of a pledget of cotton wool and allowed to dry and then repeated, finally the part is dusted with a mixture of zinc oxide (1), boric acid (2), powdered starch (13). The spirit must not be used if the skin is broken, nor must strong antiseptics, such as carbolic acid, be added. If the part becomes very sensitive a horseshoe pad or ring air-cushion is used to relieve the pressure. On no account must the skin be allowed to remain wet. In regard to the treatment of bedsores, weak chlorinated soda compresses may be required as applications, or charcoal poultices for large gangrenous sores. As a soothing application zinc ointment made into a cream with castor oil is generally used, or balsam of Peru on lint.

G. W. W. (27/3).—PRESCRIPTION PRICING.—The following is the charge on the *C. & D.* Costing System for dispensing the prescription you send:—

| | | | |
|-----------------|-----|---------|----------|
| Ac. salicyl., | ... | d. | 1.0 |
| Ac. benzoici | ... | aa 3j. | 2.0 |
| Tr. kramer. | ... | ... | 3v1. 7.0 |
| Spt. vini rect. | ... | ad 3iv. | 36.0 |
| Oncost | ... | ... | 8.0 |
| Container | ... | ... | 2.0 |
| | | | 56.0 |

The price, 4s. 8d., is based on the assumption that the rebate is obtained on the alcohol, otherwise the charge would be 7s. 11d.

Retrospect of Fifty Years Ago

Reprinted from
"The Chemist and Druggist," April 15, 1875

Mr. Peter Squire

[From a biographical sketch in the "portrait gallery" series.]

Peter Squire was born in Bedfordshire, in 1798, and was educated at Aspley School, in the same county. At the age of 14 he was bound apprentice to a chemist and druggist at Peterborough. Hard work was not exactly a matter of choice with apprentices in those days, and few of them, we imagine, could complain at the end of their terms that they had not been taught their business in a sufficiently practical manner. The Israelites in Egypt were not more carefully trained in the art of brickmaking than were country druggists' apprentices drilled into the details of pharmacy as it then existed. Long hours of shop work, however, were not enough to satisfy young Squire. He had a strong fancy for botany, and having purchased a copy of the folio edition of Sir John Hill's "Herbal," a work arranged on the Linnean system, he set to work to study it systematically. His "time allowed for study" was previous to 7 a.m., at which hour business commenced. At that period of the morning, or, as we should now call it, night, therefore, he rummaged the fields and ditches round Peterborough, and thus laid the foundation of that botanical skill which afterwards made him so terrible an examiner to those candidates for pharmaceutical honours who "had never been able to see the use of botany."



[Commenced C. & D., July 5, 1924]

Casein, Commerce of.—The following figures show the imports, exports and re-exports of casein from and to the United Kingdom from 1920 to 1923, together with the countries of origin and destination:—

| <i>Imports</i> | | | | |
|-------------------------------------|----------|---------|---------|---------|
| | 1920 | 1921 | 1922 | 1923 |
| | Tons | Tons | Tons | Tons |
| Norway | 47 | 96 | 5 | — |
| Netherlands .. . | 325 | 7 | 52 | 7 |
| France | 1,141 | 493 | 945 | 1,558 |
| Argentine Rep. .. | 298 | 857 | 794 | 807 |
| Other foreign countries .. | 147 | 39 | 132 | 349 |
| Total from foreign countries .. . | 1,958 | 1,492 | 1,928 | 2,721 |
| Value | £187,658 | 106,812 | 116,654 | 204,850 |
| British India .. . | 743 | 439 | 327 | 309 |
| Australia | 73 | 101 | 114 | 122 |
| New Zealand .. . | 1,009 | 1,565 | 1,037 | 1,254 |
| Other British Possessions .. | 1 | — | — | 204 |
| Total from British Possessions .. . | 1,826 | 2,105 | 1,478 | 1,889 |
| Value | £129,063 | 146,855 | 77,537 | 129,319 |
| Total | 3,784 | 3,597 | 3,406 | 4,610 |
| Value | £316,721 | 253,667 | 194,191 | 334,169 |

The following are imports entered in transit on through bills of lading:—

| | 1920 | 1921 | 1922 | 1923 |
|---------------|--------|------|-------|--------|
| Tons | 16 | — | 88 | 139 |
| Value | £1,275 | — | 5,427 | 11,140 |

| <i>Exports</i> | | | | |
|-----------------------------------|----------|--------|--------|--------|
| | 1920 | 1921 | 1922 | 1923 |
| | Tons | Tons | Tons | Tons |
| Russia | 193 | — | — | — |
| Sweden | 139 | 23 | 64 | 20 |
| Germany | 587 | 560 | 365 | 91 |
| Netherlands .. . | 184 | 98 | 83 | 44 |
| Belgium | 55 | 31 | 34 | 19 |
| France | 137 | 11 | 6 | 2 |
| Spain | 119 | 16 | 14 | 33 |
| United States .. . | 506 | 31 | 204 | 36 |
| Other foreign countries .. | 59 | 128 | 152 | 94 |
| Total to foreign countries .. . | 1,979 | 898 | 922 | 339 |
| Value | £167,640 | 59,588 | 50,201 | 31,481 |
| Total to British Possessions .. . | 12 | 5 | 32 | 35 |
| Value | £1,414 | 797 | 2,868 | 3,158 |
| Total (tons) | 1,991 | 903 | 954 | 374 |
| Value | £169,054 | 60,385 | 53,069 | 34,639 |

| <i>Re-exports</i> | | | | |
|-----------------------------------|---------|--------|--------|--------|
| | 1920 | 1921 | 1922 | 1923 |
| | Tons | Tons | Tons | Tons |
| Sweden | 53 | 5 | 61 | 80 |
| Denmark | 5 | 72 | — | 2 |
| Germany | 446 | 413 | 1,143 | 625 |
| United States .. . | 312 | 20 | 178 | 209 |
| Other foreign countries .. | 63 | 75 | 130 | 146 |
| Total to foreign countries .. . | 879 | 585 | 1,512 | 1,062 |
| Value | £67,492 | 37,179 | 67,741 | 74,554 |
| Total to British Possessions .. . | 2 | 1 | 4 | 17 |
| Value | £327 | 62 | 204 | 1,475 |
| Total (tons) | 881 | 586 | 1,516 | 1,079 |
| Value | £67,819 | 37,241 | 67,945 | 76,029 |

Casein is the distinctive albumin of milk, and consists of a complex phospho-protein of somewhat variable composition and solubility, according to the manner in which it is prepared from separated milk. In uncurdled milk casein exists as a soluble calcium caseinogenate, which is flocculated by weak acids, such as acetic or tartaric acid, or it may be coagulated by rennet. The latter method gives a different type of product, but most commercial casein is precipitated by acetic acid, well washed, and dried before treatment with alcohol-ether to extract fat. Commercial casein is a whitish or greyish-white granular powder, insoluble but swelling in water; it contains about 80 per cent. of casein, 10 per cent. of moisture, 6 to 7 per cent. of ash, and about 2 per cent. of fat. Purer products are obtained by solution in ammonia, reprecipitation with acetic acid and extraction with alcohol and ether, which may be repeated several times. Soluble caseins are prepared for medicinal use by addition of alkali (sodium carbonate) and sodium or calcium glycerophosphate, to make a product more miscible with water. In practice it is difficult to obtain uniformity in casein products, as the protein is amphoteric, retaining both acid and alkali. Thus these are absorbed at the outer surface of the clots of wet casein, and the centres (of different composition) comprise much of the coarser powder obtained during the subsequent drying, grinding, and grading. Casein, freed from vitamin A, by oxidation or repeated extraction with ether, is now a commercial product, being the basis of synthetic diets for animals used in testing foods for vitamin content. The chief use of casein is in the manufacture of cold water distempers, enamel paints, and the preparation of casein glue. Galalith is a creamy, horn-like solid used as bone and ivory substitute. It is formed by pressing into moulds the insoluble compound resulting when casein and formaldehyde are mixed. The variety of applications to which casein is put is endless, ranging from calico printing and boot-polish to nerve-foods and face-creams. Casein is used in the manufacture of carbohydrate-free foods and breads for diabetics. Casein is an invaluable source of tryptophane, a ring-compound essential for protein metabolism, and this is probably more responsible for the restorative powers of the popular glycerophosphate-casein nerve-foods than the phosphorus present. Casein is a by-product of the milk industry. France for many years supplied the best qualities of casein for dietetic or medicinal use, these being whiter and more consistent products; but an all-round improvement has occurred in British caseins during the last two years. The makers of proprietary foods make or control the preparation of casein products for their particular preparations, as the use of the variable commercial casein is out of the question.

Cash Book.—Section 113 to the Companies Consolidation Act, 1908, refers to auditors' rights and duties. As they must report to the shareholders on the accounts examined by them, it is important that a proper record of receipts and payments is kept. See Book-keeping.

Cashew Nuts are the fruit of *Anacardium occidentale*, a tree belonging to the West Indies, South America, and India, our chief imports being derived from Bombay and Madras. The shipments mostly come in the shelled form—that is, the kernels are removed from the outer shell, which is hard and woody; the kernels are also sold "blanched," i.e., the husks have been removed by roasting. As an edible nut they are quite popular in this country.

Cash on Delivery System is an arrangement for collecting from the addressee for remittance to the sender by special Card Money Order the value of articles sent by Parcel Post. The system is not in operation in Great Britain and Ireland, but is in operation between this country and most of the British Colonies, also France, Denmark, Norway, Sweden, Holland, Switzerland, Egypt, Federated Malay States, and Chinese Post Offices. The same system applies to incoming parcels from the above-named countries.

Cash Registers.—The simplest model of a cash register consists of a box containing a cash drawer and with a

The C.&D. Commercial Compendium

space in the lid through which passes the paper for registering the sale. The paper runs from one roll or spool to another, in a similar manner to the film in a roll-film camera, the opening or closing the drawer causing the bobbins to revolve. At the end of the day the used portion is removed, and the amount totalled up. Automatic cash registers are simple to operate so far as registering the cash, usually performed by pressing the appropriate key, and these machines provide details concerning the business which could hardly be obtained by any other means. With the latest types, the value of each article is registered as purchased; and when the order is completed a receipt showing the amounts and total, together with an identification mark of the assistant, is issued. Each assistant has a separate cash drawer, so that errors can easily be traced. The machine also adds up the total sales of each assistant, and shows the number of customers he has served. Such an apparatus can be used in conjunction with a credit-file instead of keeping books. Between these two models is a range of machines so great that the needs of every type of business can be catered for. The automatic cashier, a machine for delivering the change by the pressure of a key, has not as yet been adopted to any extent in pharmacy.

Cassava.—The name cassava should properly apply only to the meal obtained from the roots of the plant *Jatropha*, chiefly *Manihot Utilissima*, from the various species of which tapioca is derived, but the term has passed into use to designate the plant itself. In order to prevent confusion, the name *manioc* should be restricted to the plant, cassava to the starchy substance derived from its tubers, and tapioca to the product manufactured from its starch. Cassava starch only differs from tapioca flour in being of a less lumpy character and appearance. Flake and pearl tapioca are partially cooked products.

Cassareep is the inspissated juice of the bitter cassava root, *Jatropha manihot*, largely prepared in the British West Indies as a basis of various sauces, and particularly of the famous West Indian "pepperpot."

Cassia Bark.—The drug known under this name in British pharmacy is the produce of *Cinnamomum Cassia*, Bl., cultivated in the provinces of Kwangsi and Kwang Tung, in the south-east of China. In the United States it is known as Chinese cinnamon. It is also known in wholesale commerce in Britain as cassia lignea, in contradistinction to a bark called cassia vera. Cassia bark is met with in quilled pieces, usually single, and rarely with one quill inside the other. The quills are about $\frac{1}{8}$ in. thick, and up to 9 or 10 in. long. The surface of the quills is scraped, only a thin patch of the outer surface remaining here and there. The taste is similar to that of cinnamon, but quite characteristic and distinct. In the United States the cassia bark imported from Saigon is official in the Pharmacopœia under the name of Saigon cinnamon. It is considered by Dr. C. Hartwich to be distinct from *Cinnamomum Cassia* from its microscopical characters ("Archiv. der Pharmacie," 1901. See also Museum Report, Ph. Soc., 1903, pp. 48-51). It resembles "Chinese cinnamon" or cassia in its flavour, which is stronger and more pungent, and in the remains of the cortical surface left in patches, but the tint of the bark is more of a red-brown tint. It is the Annam cinnamon of Dr. A. Henry ("P.J." (4), VI, p. 47). Powdered cassia bark is sometimes sold by grocers as powdered cinnamon, being cheaper, but no one who knows the taste of cinnamon would fail to recognise the difference. The natural bark of the cassia tree with the outer surface not removed, in short, much thicker quills, is so highly valued in China that it is not exported. It has a sweeter and more pungent taste, but presents no microscopical difference to distinguish it from the bark of *Cinnamomum Cassia*. The bark known in the London drug market as *Cassia vera* is in long, usually

single, quills, hard and tough, and distinctly mucilaginous in taste, and only faintly aromatic. It is imported from Padang, in Sumatra, and from Timor. It is believed from its structure to be derived from *Cinnamomum Burmanni*, D.C. It does not appear to enter into retail pharmacy. It is distinguishable under the microscope by containing tabular crystals of calcium oxalate, the cells of the medullary rays having no porous thickening, and in having isolated groups of stone cells.

Cassia Fistula.—Up to the fifth century A.D. this name was applied to cassia bark in works on medicine, and it was only at the beginning of the thirteenth century that the name was applied to the pods of the tree now called *Cassia Fistula*, L. The long black cylindrical pods are limited in the B.P. to about 35-50 cm. in length, 15-25 cm. in breadth, which excludes the larger pods of *Cassia grandis*, Linn., from Brazil and the smaller pods of *Cassia moschata*, H.B.K., which have occasionally been offered in commerce as substitutes. The pulp of *C. grandis* is disagreeably astringent and bitter, that of *C. moschata* is paler and has a musky odour. Cassia fistula is generally imported from Dominica in the West Indies and from Sourabaya in Java. West Indian is packed in bags of 75 lb. to 100 lb., and that from Java in baskets of about 140 lb. Those from the East Indies are rather smaller and smoother than those from the West Indies, and are usually preferred, the pulp of this kind being considered to be more active. The pulp, which usually forms 70 per cent. of the fruit, is chiefly used as an ingredient of *Confectio Senna*, B.P., a preparation which certainly varies much in strength as met with in commerce. Old fruits can be distinguished by the seeds rattling when the pods are shaken. The fruit of *Cassia grandis* is rather compressed, and the ventral suture is marked by two prominent ridges, and the pod has prominent veins. The pod of *Cassia Fistula* has an internal dissepiment between each seed, so that it represents a lomentum internally and a pod externally, and is therefore a lomentaceous legume. It is also interesting to botanical students as one of the few leguminous fruits with albuminous seeds, the nat. ord. *Leguminosae* being classed as having exalbuminous seeds.

Cassia Lignea.—See Cassia Bark.

Cassia Oil.—Cassia oil is the distillate from the leaves, twigs and other parts of the *Cinnamomum cassia*, the so-called Chinese cinnamon tree, a native of Cochin China. It is chiefly cultivated in China proper, especially in the Taiwu, Lupko, and Loting districts. The oil is used to a large extent in perfumery, especially in the soap trade. It is imported, principally from Hong Kong, in cases containing four leads of about 16 $\frac{3}{4}$ lb. each, and in this case is always slightly contaminated with lead. For cassia oil free from lead a much higher price is required. It is sold on the market in grades, depending on the amount of cinnamic aldehyde present in the oil. These grades are 70 to 75 per cent. (seldom imported now), 75 to 80 per cent., and 80 to 85 per cent. It is probable that very few pure cassia oils contain less than 80 per cent. of cinnamic aldehyde, and few contain less than 85 per cent. The "grades" are usually obtained by the dilution of pure oils with resinous matter. The odour of the oil is typically that of cinnamon, but far less delicate. A genuine cassia oil has the following characters: Specific gravity, 1.055 to 1.072; refractive index, 1.6000 to 1.6060; optical rotation, -1° to $+6^{\circ}$; acid value, 6 to 20; cinnamic aldehyde, 80 to 90 per cent. It contains, besides this aldehyde, a little cinnamic acid, terpenes, the acetic esters of cinnamic and phenyl-propyl alcohols, *o*-methyl-coumaric aldehyde, salicylic aldehyde, coumarin, and salicylic and benzoic acids. The United States, Great Britain and Japan are the largest users of cassia oil, the average exports from Hong Kong (with a little from Canton) varying from £35,000 to £55,000 per annum.

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Cascara Sagrada
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Ammoniated Quinine dr. 1, Pink s/c.
Vegetable Laxative.
Cinnamon and
Quinine.
Phenacetin.
Iodised Throat,
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Liquorice Juice

The Chemist's Brand

Should any enquiries as to the composition of SOLAZZI be received from the Public, Chemists are requested to emphasise the fact that SOLAZZI is not included in the category of Secret Remedies, and that the following guarantee obtains with every parcel.

*Solazzi Juice is
guaranteed to consist entirely
of the condensed extract of
finest Calabrian Liquorice Root,
without any admixture whatever*

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SULPHUR COMPOUND - 11d. lb.
Lemon or Orange flavour.
ASPIRIN - - - 2/9 per 1,000
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20,000 Lots.
PACKED ASPIRIN, 25's - 30/- gross
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LARGER QUANTITIES AT SPECIAL RATES.

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Theobromine Pure Alkaloid
Theobromine Sod. Salicylate
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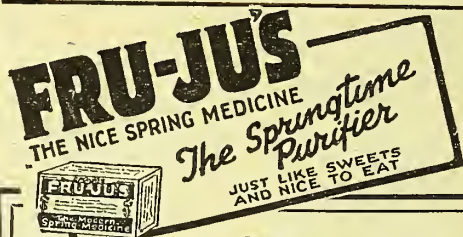
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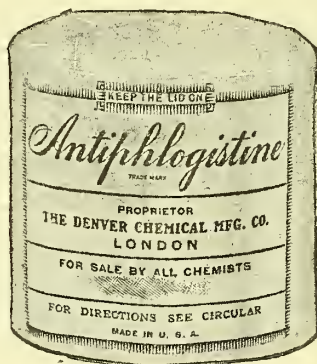
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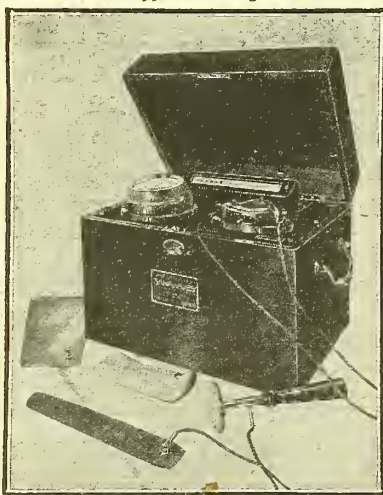
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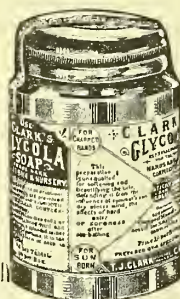
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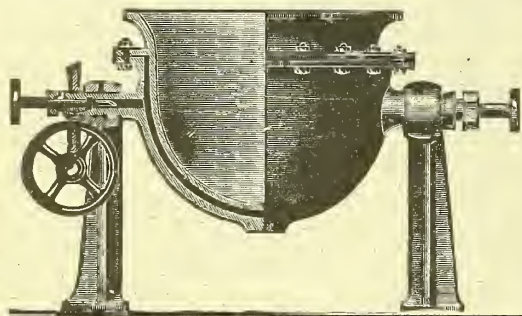
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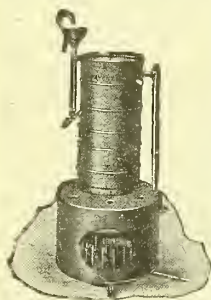
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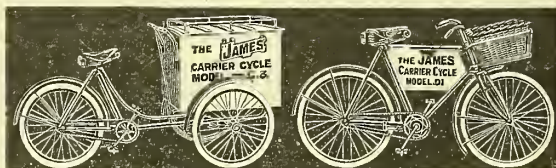
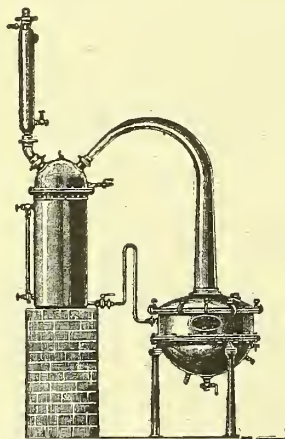
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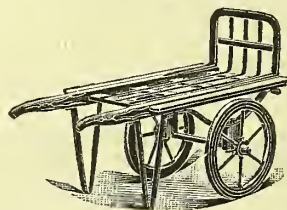
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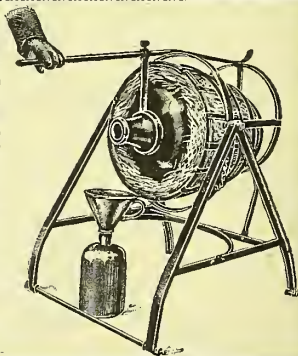
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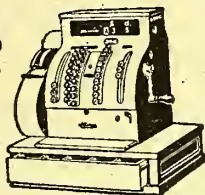
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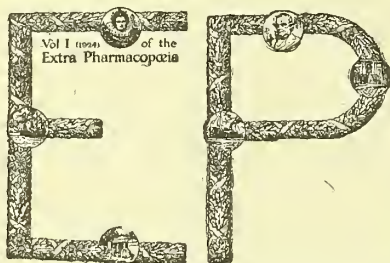
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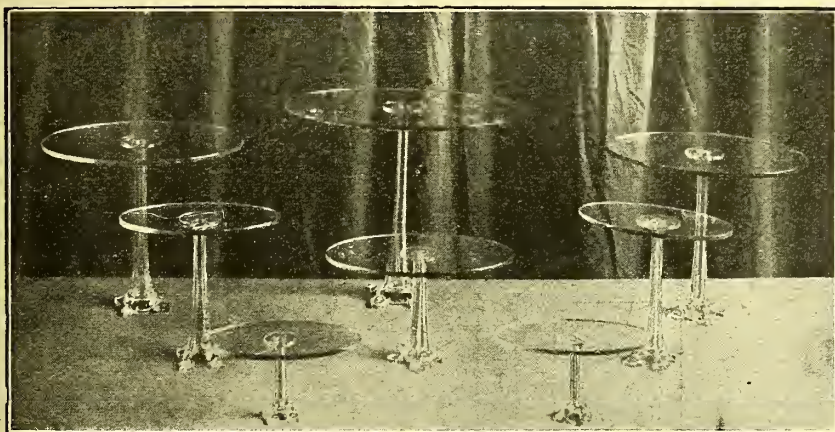
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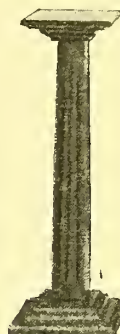
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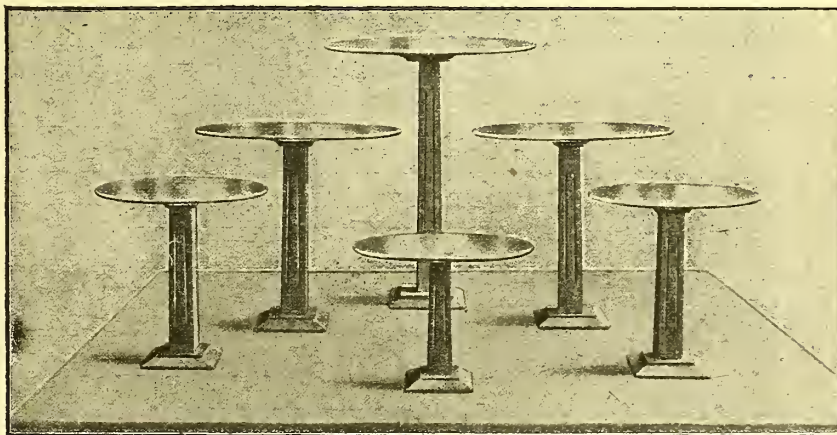
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APRIL 18, 1925.

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Wales); large double-fronted lock-up shop and rooms, on lease; well stocked, good fittings; turnover, £25 (and increasing), at good profits; Prescribing, Optics, and N.H.I. can be added with great advantage; price valuation, about £800; disposing through ill health. 49/29, Office of this Paper.**G**ENUINE Drug Stores, profitable, growing seaside, 27 miles London; big scope for qualified man; big Photography business. Dentistry; can be doubled; lock-up shop; long lease; £650; stock extra, or reasonable offer; newly fitted. "Magnum," 49/26, Office of this Paper.**P**OPULOUS West Riding industrial town; returns £40 weekly; N.H.I. average 140 weekly; Wine Licence; premises, which include house and shop, will rent, lease, or sell. Write 48/12, Office of this Paper.**£550 INCLUSIVE**.—Pharmacy, situated most central and thickly populated S.W. suburban main road, steady business done; splendid opening for Panel Chemist, Optician, and Photographic; pharmacy recently extended; fitted up with electric light, telephone, etc.; indifferent health cause of sale. "Carminia," 48/37, Office of this Paper.**BUSINESS WANTED.****A** DVERTISER seeks a business, or would entertain Manager-ship with view to succession; or a neglected business not objected to. Vendors, please send full particulars in complete confidence; cash waiting. Banker's reference given. I am a genuine buyer. 50/4, Office of this Paper.**S**MALL Chemist's Business or Drug Stores, with good opening for Dispensing; western suburbs preferred; cash available at once, £500; would entertain Managership with view to succession. Apply 43/17, Office of this Paper.**W**ANTED, good-class Retail Chemist Business at one of the larger South Coast resorts, preferably in Southsea or Eastbourne, gross receipt, £3,000 to £4,000 per annum. 45/39, Office of this Paper.**W**ANTED, a good-class Business in the South, preferably Southampton, Portsmouth, Worthing, or near. Full particulars, giving position, rent, type of business, will be treated in confidence. Reply, 50/17, Office of this Paper.**APPRENTICESHIP.****A** WELL-EDUCATED youth required as an Apprentice in a high-class Dispensing and Retail Pharmacy; exceptional opportunity of acquiring a thorough knowledge of the business; must have passed Preliminary or equivalent. Peter Bouilly, 85 Bishop's Road, W.2.

FINANCIAL.

WANTED, gentleman with capital for amalgamation and extension of two wholesale businesses. Chemist's and Hairdresser's; present turnover, about £6,000; £1,000 should double turnover. 48/38, Office of this Paper.

AGENCIES.

ESTABLISHED House doing with Chemists and Hairdressers requisite Agency, buying or otherwise, for known specialties or sundries. Yorkshire. 48/380, Office of this Paper.

SITUATIONS OPEN.

RETAIL.

[HOME.]

6s. for 40 words or less; 6d. for every additional 10 words or less, prepaid.

BEXHILL-ON-SEA, SUSSEX.—Wanted, a qualified man as Senior Assistant, age 30-35, of good appearance and address; high-class Dispensing and Counter experience required; good Window-dresser preferred; first-class references essential. Apply, stating salary, to F. B. Wimbush, Chemist, Bexhill.

BRIGHTON.—Wanted, at once, qualified Assistant for a light comfortable or part-time berth; would suit elderly or semi-retired gentleman requiring a permanency. Apply, stating salary required, which must be moderate, "B.", 45/16, Office of this Paper.

BRIGHTON.—Part-time for two days or four half-days a week, as may be arranged; someone who is capable of taking entire charge; suitable for elderly retired man wishing a little to do in spare time; duties light; no N.H.I.; references required. Apply, "Chemicus," 50/15, Office of this Paper.

CAMBRIDGESHIRE.—Qualified Assistant wanted at once as Cover in an old-established country business; single; indoors; not over 45; one desiring a permanency; comfortable home; good references essential. Apply, with photo, stating age, experience and salary required, and when at liberty, to "Ergot," 48/21, Office of this Paper.

CARDIFF.—Lady Assistant wanted in Photographic Department; practical experience in D. and P., also Counter work. Apply Duck & Son, St. John's Square.

CROYDON.—Junior Assistant required; must be accurate Dispenser and have good knowledge of Counter, Photography, and Window-dressing. Full particulars of age, height, and salary to Vincent & Co., 302 Lower Addiscombe Road, Croydon.

DEVON.—Wanted, qualified Chemist, age about 40; start duties May 4; if necessary convenient house near shop provided. State fullest particulars of experience, salary required, and send copies of reference and photograph first letter. Harry Stephens, Ltd., Plympton, Devon.

ESSEX (near coast).—Qualified Assistant wanted immediately, capable of managing quick cash business. Send full particulars of experience, references, and salary required (outdoors) to 45/34, Office of this Paper.

G.T. YARMOUTH.—Junior Assistant, outdoors, required in May; good Salesman; knowledge of Photography. Usual particulars and references to W. S. Poll & Son, Pharmacists, Regent Road, Gt. Yarmouth.

HARROGATE.—Smart Junior, accustomed to high-class Dispensing business. State salary required, age, height, and enclose photo. Harper, 111 Cold Bath Road, Harrogate.

KENT COAST.—Unqualified Junior Assistant required for good-class business for Counter, Window-dressing, and D. and P. work; good references essential. State age, height, experience, and salary required, in first letter, to 50/3, Office of this Paper.

LEEDS.—Capable Assistant required; must be a good Dispenser; knowledge of Photographic and Rexall Agency an advantage. Apply, stating salary expected and when disengaged, to M. E. Murray, 221 Woodhouse Lane, Leeds. Applications not answered by the 22nd inst. respectfully declined.

LONDON, E.C.—Vacancy for a thoroughly capable unqualified Assistant; 25 to 35; must be well up in Dispensing, Counter, Photography, and Window-dressing; good prospects. 50/1, Office of this Paper.

LONDON, N.—Wanted, young qualified man for Branch Managership; medium-class Retail, N.H.I. and Photography. Apply, giving particulars of age, height, experience, salary required, and photo if possible (to be returned), 48/26, Office of this Paper.

LONDON, N.—Wanted, young qualified man as Assistant in good-class Dispensing and Retail business; indoors or outdoors. Apply, giving usual particulars, including salary required, to Saunders, 50 High Street, Highgate.

LONDON, S.E. (near Colleges).—Unqualified Assistant required four evenings weekly, 5.30 to 8, and Saturdays 5 to 9, for N.H.I. Dispensing, help on Counter. Apply, stating experience, age, salary, and references, to 51/80, Office of this Paper.

LONDON, S.W.—Assistant required; male; must be good at Counter, Window-dressing, well up in Photography, and be capable of being left in charge. Apply, with full particulars of previous experience, references, etc., and salary required, to 50/39, Office of this Paper.

LONDON, W.—Junior qualified Assistant required for Dispensing Department; good experience essential. Apply, by letter only, with copies of references and fullest particulars, to Manager, John Bell & Croyden, Ltd., 50 Wigmore Street, W.1.

LONDON, W.—Required now or shortly, a very smart up-to-date Assistant, not over 40 years of age nor under 5 ft. 8 in.; exceptionally good appearance and address are needed, and a first-class Counterman is essential; the berth is an absolute permanency, and no one need apply unless competent to take the reins; abstainer preferred. Full particulars and photo to W. V. Wright, 25 Broadway, Hammersmith. Interview by appointment only.

LONDON, W. SUBURB.—Qualified Manager required for middle-class Retail N.H.I. and Photographic business; good Salesman and Window-dresser essential, business having scope for increase; permanency to a worker. Apply, stating age, experience, references, salary required, to 51/8, Office of this Paper.

MANCHESTER.—Qualified Manager required for branch; good-class Retail, Photographic Sundries, moderate N.H.I. Dispensing; knowledge of Optics an advantage, but not essential. Apply, stating age, experience, and salary required, to Colmans, Ltd., 161 Bury New Road, Manchester.

MANCHESTER DISTRICT.—Manager; qualified; 27-35; first-class Salesman and Display, N.H.I. and busy Counter trade. State age qualifications, and salary required; submit photo. Apply, 48/18, Office of this Paper.

MARBLE ARCH PHARMACY, 24 Edgware Road, W.2, require qualified man, preferably with West-End experience; abstainer essential. Apply, with particulars of experience, salary required, etc., 46/25, Office of this Paper.

MIDLANDS.—Branch Manager; qualified. Give full particulars age, experience, and salary required. 51/37, Office of this Paper.

ST. JOHN'S HOSPITAL FOR DISEASES OF THE SKIN, 49, Leicester Square, W.C.2.—Required, at once, an Assistant in the Dispensary Hospital; experience essential; salary £2 10s. per week. Applications and copies of testimonials to be sent to the Secretary-Superintendent.

SOUTH COAST.—Young qualified (Minor) Assistant wanted; lady or gent.; Dispensing, Stock, Counter, etc.; light trade, no heavys; easy hours; Sunday, etc., duties allowed for. Write full particulars to "Ltd.," 48/6, Office of this Paper.

SURREY.—Wanted, an experienced qualified Assistant. Please send full particulars and salary required. 47/40, Office of this Paper.

TUNBRIDGE WELLS.—Qualified Senior Assistant wanted early in May for Dispensing business with good-class Retail; good Salesman required, who is capable of general management of business and staff. Apply, with full particulars of experience, age, salary required, etc., to A. E. Hobbs, 20 St. John's Road, Tunbridge Wells.

YORKSHIRE.—Unqualified Assistant required, age about 25; permanent and progressive post. State when at liberty. 51/400, Office of this Paper.

A JUNIOR Assistant wanted for middle-class business; N.H.I. and Kodak; Photographic experience not essential. State age, height, and salary required to Bell, Chemist, 110 Lichfield Street, Walsall.

A QUALIFIED Assistant wanted. Please give references and usual particulars, with salary required, to H. E. Matthews, Ltd., Chemists, Mornington Crescent, next to Tube Station, N.W.1.

QUALIFIED Manager required for London, E., for quick Counter, N.H.I., and Photographic business; must be energetic, good Window-dresser, and able to develop a business that offers good scope. Please give full particulars, wage required (salary and commission), and when at liberty. 45/22, Office of this Paper.

QUALIFIED Manager required for working-class business in industrial centre, North Midlands; progressive terms and a good permanent man. 50/19, Office of this Paper.

VACANCY occurs in high-class West-End Dispensing business for a gentlemanly and smart Assistant. Apply Frank Rogers, 1 Beaumont Street, W.1.

ASSISTANT, experienced in Optics preferred; also Junior, experienced Window-dressing, Dispensing. State age, salary required, and full particulars to "North London" (P.C.B. 1/13), Office of this Paper.

ASSISTANT, male, wanted, accustomed to good-class Retail and Dispensing; knowledge of Photography essential. Give full particulars in first letter as to age, salary, etc. Sewell, Chemist, Huntingdon.

ASSISTANT, unqualified, active, keen, of good appearance; knowledge of Kodak Photography and Window-dressing. Give full particulars in first letter as to experience, references, age, height, when disengaged, and salary expected. Chater, Chemists, Watford.

ASSISTANT wanted, not over 30, for good-class business, Southampton; Dispensing and Counter, Photography; an worker. 51/12, Office of this Paper.

BOOTS THE CHEMISTS have vacancies for qualified and unqualified Retail Chemist Assistants. Apply by letter to Boots Pure Drug Co., Ltd., Station Street, Nottingham.

APABLE unqualified Assistant; one accustomed to good Dispensing. Please give fullest particulars in first letter as salary, etc. C. G. Higgins, Chemist, Caine, Wilts.

APABLE, gentlemanly Assistant; qualified preferred, but not essential; must be accustomed to good-class Dispensing and Retail business, and a good Counterman. P. Bolton, Chemist, 5 Sussex Place, South Kensington, S.W.7.

JUNIOR—Wanted at once, smart, unqualified Assistant as Junior; Photography and brisk Counter trade; permanency; good opportunity. Reply, giving full particulars, experience, salary required (photo if possible), W. Bates & Co., Ltd., Oxford Street, Southampton.

JUNIOR Assistant at once, with good experience in Dispensing, Counter, Photographic and Window-dressing. State age, experience, salary. S. P. Sayers, 7 Brent Street, Hendon, N.W.4.

JUNIOR Assistant required (outdoors) for good-class Retail and Dispensing business, with Photography. Please apply, giving age, height, and salary required (Welsh speaking essential). D. Stanley Davies, 6 Nott Square, Carmarthen.

JUNIOR Assistant (male) wanted at once; must have had good Dispensing experience in high-class Pharmacy. Please give full particulars and state salary required (outdoors), enclosing photo, to "A. C. O.," c/o Messrs. A. C. Olds & Co., Chemists, Bath.

JUNIOR or Improver wanted at once, with good knowledge of Photography, including Developing and Printing. L. H. Lester, c/o H. Lester & Son, Rexall Pharmacy, Bridge Street, Leaton.

JUNIOR or Improver for middle-class business. Please state full particulars, references, age, height, salary required, and enclose photo (will be returned). Berridge, Ltd., Chemists, Leicester.

ADY Dispenser for Friendly Societies' Medical Aid Institution; must be fully qualified for State Insurance work. State age, salary, and experience to Secretary, 21 Fennel Street, Loughborough (Leics.).

ADY, Improver or Junior, age about 20; Photographic experience, Counter, and Windows; easy and comfortable position in Potteries district. Please give full particulars, with salary required, references, and photo, which will be returned. 18, Office of this Paper.

OCUM, qualified, fortnight from April 30; good recent references necessary. Send terms, particulars to Edgar & Co., 9 Commercial Arcade, Guernsey, C.I.

OCUMS, qualified (male), accustomed to quick Store trade, capable Manager, July 6 to August 22; also unqualified (female) reliable Dispenser, May 25 to October 3. Martyns, Ltd., Chemists, Wolverhampton.

MANAGER for small branch business to live over premises; must be energetic, reliable, and well recommended; house, light and rates free. Apply, stating full particulars, to F. J. Jones, Chemist, Aylesbury, Bucks.

MANAGER (qualified); energetic, reliable man, about 35; must have had good all-round experience. Please give details of experience, age, height, salary, etc., or call. "M.P.S.," 554 High Road, Goodmayes, Essex.

MANAGER: qualified; 25-35; must be good Salesman, experienced in Window-dressing, Photographic Sundries, and the general routine of a good-class business; to a man with ambition and energy the position offers wide scope and certain advancement. Interview can be arranged on weekly half-holiday or Sunday. Send photo and full particulars of experience to 62/948, Office of this Paper.

MESSRS. BROOM, REID & HARRIS, Exeter, require for May 11 good Junior Assistant, 20 to 23, able to Dispense. Apply, with full particulars of experience, salary required, and photo, to Mr. Reid, 2/3, Queen Street.

MESSRS. TIMOTHY WHITE CO., LTD., have vacancies for unqualified Assistants. Write, giving full particulars of experience, etc., to Secretary, Timothy White Co., Ltd., Portsmouth.

MR. MAX MATZ, 5 Bury New Road, Manchester, has vacancy for an unqualified Senior Assistant, also Improver (male or female). State full particulars of experience, references, salary required, etc.

MINOR lady or gentleman required as Cover. Please give full particulars to Law, 45 Market Street, Birkenhead.

PHARMACEUTICAL CHEMIST—Qualified Assistant (male) wanted, with knowledge of Photographic Materials. Applications by letter, giving references and stating full particulars and wage required. Samuel Thornley, Ltd., Druggists and Drysalsters, 6 Snow Hill, Birmingham.

QUALIFIED Assistant, capable taking charge, about 25, mixed business, N.H.I. and Private Dispensing; sound references and willing worker. State age, height, salary, photo if possible. T. L. Curtis, 38 Station Street, Swinton, Rotherham, Yorks.

QUALIFIED male Assistant, used to busy N.H.I. and Counter; clean and accurate worker essential; Birmingham district; would consider unqualified Assistant with good experience. Full particulars to 45/26, Office of this Paper.

QUALIFIED, middle-aged or elderly, comfortable position, easy hours, N.H.I. chiefly, as Cover, wanted April 27 for Lancashire district; permanency for suitable man. Usual particulars and salary to "Camphor," 46/22, Office of this Paper.

QUALIFIED Junior for Locum work, with probable permanency; one newly qualified; age between 24-30, with undeniable references; interview essential. Apply to J. Y. Fairweather, 313 Sydenham Road, S.E.26.

QUALIFIED Assistant, young, preferably just passed Minor Examination; to assist managing a business in S.W. London; must be strictly honest, smart and capable, and possess undeniable references; good salary and commission to right man. Apply 48/3, Office of this Paper.

QUALIFIED Assistant wanted for East London, able to dress windows; easy post. Apply, by letter only, stating age, experience, and lowest salary required, also when at liberty, "Chemist," 73 Brondesbury Villas, Kilburn, N.W.6.

QUALIFIED Chemist to take charge of branch (lock-up) from May 9; must have good experience in high-class Dispensing, and prepared to reside in Sutton or near. Stephenson, Chemist, Sutton, Surrey.

QUALIFIED Manager for West-End Pharmacy; must be experienced Salesman, good Displayman, and a methodical Stock-keeper; also smart unqualified Assistant for quick Counter and N.H.I. trade. Apply 33 John's Mews, Little James Street, Bedford Row, Holborn.

QUALIFIED Assistant required for good-class Dispensing and Retail business, with Photography (no D. and P.). Apply, with full particulars, age, experience, and salary required, to George & Welch, Chemists, Worcester.

QUALIFIED Manager wanted for Branch Business in Bolton. State experience and salary required. Apply to Waller & Riley, Ltd., 17 & 19 Bradshawgate, Bolton.

QUALIFIED Manager, Welshman preferred, for high-class Retail and Dispensing Business; N.H.I.; situated in South Wales; house attached; permanency, with commission on profits. Apply, 100/100, Office of this Paper.

QUALIFIED Manager required, single, for Light Retail and Dispensing Business; good prospects for steady and reliable young man. 51/4, Office of this Paper.

RELIABLE Junior; unqualified; Photography and Dispensing. Barley, Chemist, Thame.

SURGERY Attendant, with knowledge of Dispensing, required for the Royal Albert Institution for the Feeble-minded, Lancaster; active married man, about 30, living out; experience of clerical work additional qualification. Apply, with recent testimonials, stating salary expected, to the Medical Superintendent as above.

THE services of a reliable, qualified Manager are required; S.M.C. or B.O.A. preferred, but not essential. Please give age, height, references, particulars of experience, salary expected, and state when at liberty to Arnold A. Dawson, 143 High Street, Ponders End, Middlesex.

TWO Qualified Men (25-35) required for West London and Brighton; must be good Salesmen, with knowledge of Photography and Window-dressing. Apply with full particulars, to A. E. Leng, 203 High Street, Acton, W.3

UNQUALIFIED Assistant wanted at once, about 27. Apply, with full particulars, salary required, etc., to 51/2, Office of this Paper.

UNQUALIFIED Manager or Managing Assistant for South-East Coast; must be a first-class Counter hand and good Window-dresser, and capable of taking entire charge; living accommodation; married or single; excellent opportunity; state salary. No reply, consider vacancy filled: 50/22, Office of this Paper.

VACANCY for Junior or Improver, male, about 20 years, well up in ordinary Retail routine, Counter work, etc.; also a part-time Assistant. Apply with references, salary, age, height, etc. Replies unacknowledged in five days are respectfully declined. The Posser Roberts Co., Pharmaceutical Chemists, 13 Church Street, Camberwell, S.E.

WANTED, qualified Chemist. Address, Secretary, City of Bradford Co-operative Society, Ltd., 65 Sunbridge Road, Bradford, endorsed "Pharmacy," giving particulars of experience, age, wage required, etc.

WANTED, a qualified Assistant, with knowledge of Optics; capable of management. Apply, stating full particulars, references, and salary required, to 62/966, Office of this Paper.

WANTED, for middle-class Dispensing business, a capable and energetic qualified Assistant; must have a knowledge of Photography. Apply, with usual particulars, to "Pharmacist," c/o Messrs. J. Woolley, Sons & Co., Ltd., Victoria Bridge, Manchester.

WANTED, unqualified Assistant; part-time; energetic; reliable; abstainer; smart at Counter and good Dispenser. Apply 221 High Street, Kensington, W.

WANTED, unqualified Assistant, single, good Counterman and Dispenser, with knowledge of Photography, in up-to-date cash business. Apply, giving full particulars, to S. Baker, 16 Church Street, Greenwich, S.E.10.

WANTED, a capable Junior Assistant for Photographic, Dispensing and Counter; not over 25. Applications by writing in first instance to Brewer & Marston, 44 Cophall Avenue, E.C.2.

WANTED, Unqualified Junior Assistant for Counter. Give age, height, experience and salary required. Wands, Ltd., 12 Haymarket, Leicester.

WANTED, a smart, unqualified Assistant of good appearance, for a high-class pharmacy; London; must have had good experience, and be thoroughly reliable. Apply, with full particulars as to age and salary required, to 50/38, Office of this Paper.

WHOLESALE.

HAIR Dyes and Toilets.—Vacancy with progressive firm of Manufacturing Chemists and Perfumers for young man with keenness, initiative and method; prospects are good where merit is shown. Please state experience, age, salary, etc., to 61/914, Office of this Paper.

LONDON Wholesale House require a Departmental Foreman; must be well up in Extracts, Ointments, Packed Lines, Stock-keeping, and quick handling of orders. State particulars of experience and salary required. 62/967, Office of this Paper.

REPRESENTATIVE required by London Wholesale House to call on Doctors and Chemists over S.W. Counties; either whole or part-time; connection and previous experience essential. 62/956, Office of this Paper.

REPRESENTATIVE required by Manufacturers of well-known Proprietarys for the Eastern Counties; previous experience essential. Applications, stating age, references, and full particulars, to 62/964, Office of this Paper.

PART-TIME.—Resident Representative wanted by old-established London House to work and extend existing connection among Retail Chemists in the Midlands and South-Wales. Applications in confidence, giving full particulars as to present Agencies, ground covered, commissions, etc., to 62/968, Office of this Paper.

REPRESENTATIVE required for Yorkshire by leading manufacturers of Perfumery and Toilet Specialities. Sound connection essential. State age and full particulars of experience, in confidence. "A.", 100/2, Office of this Paper.

REPRESENTATIVE required for part of Scotland by well-known dressings and sundries house; must reside in or near Glasgow. Good opportunity for young, keen man. Interview in Glasgow. Write, stating age, experience, whether married or single, and remuneration required, to 62/969, Office of this Paper.

TRAVELLER required for Brushes, Fancy Goods, etc., to call on Retail; first-class connection essential. Write, in confidence, stating territory covered, experience, etc., and terms, to 62/965, Office of this Paper.

WELL-ESTABLISHED Proprietary Medicine Firm requires Representative, of good appearance and address, with connection among Chemists, for Lancashire area; good opportunity for man who is anxious for progressive position. Write, stating age, experience, and salary required, to 49/5, Office of this Paper.

SITUATIONS WANTED.

RETAIL.

[HOME.]

A.A.A.—ASSISTANT, unqualified, 24, tall, smart appearing, Photography and Window-dressing, desires permanency; Surrey or Sussex preferred. "Halcyon," Meadowville," Bishops Hall, Brentwood, Essex.

A.A.—ALL-ROUND; 35; tall; abstainer; good references; 8 years in last situation; Dispensing, Prescribing, Veterinary and Salesmanship; conscientious and keen; unqualified; permanency or Locum. "Statim," 71 Station Road, Chingford, E.4.

A CAPABLE Assistant, unqualified, desires permanency or interest entertained; good experience (including Agricultural and Optics) and references. 48/15, Office of this Paper.

A COMPETENT Assistant; unqualified; 24; good all-round experience, Counter, Dispensing, Window-dressing, and Photographic; South or East Coast preferred; season or permanency. C. Darling, 136 Caerleon Road, Newport, Mon.

A DISENGAGED, young, Qualified Chemist, tall, good all-round experience, highest references, London experience, seeks locum or temporary post. Jones, 104 Clapham Road, S.W.9.

A QUALIFIED Chemist; practical, fully experienced, all-round man; trustworthy and obliging; permanency or Locum. "Chemist," 10 Godwin Road, Forest Gate, E.7.

A QUALIFIED Locum, age 48, good business man, well recommended, now booking dates. 48/17, Office of this Paper.

A QUALIFIED Chemist, 35, with 12 years' Manager's experience, desires post, Manager, in country or seaside town. 50/200, Office of this Paper.

A REGISTERED Dentist, apprenticed and thoroughly conversant both professions, desires engagement; 45; tall; gentlemanly habits, appearance; liberty; anywhere. Arthur, 27 Ladbroke Road, Redhill, Surrey.

A YOUNG Qualified Gentleman desires change; well recommended and energetic; Manager or otherwise; Photographics; Midlands (Leicester or Leicestershire preferred, but not essential); permanency required; Wholesale considered. "M.", 25 Dun's Lane, Leicester.

A DVERTISER (lady), Apoth. Hall, desires post where she can obtain experience in Retail Pharmacy; recommended by present employer, who will give reference. 45/290, Office of this Paper.

A LL-ROUND, unqualified Assistant, 22; Dispensing, Stock, Counter, Window-dressing and Prescribing experience; capable taking charge; a conscientious worker; highest references. 45/17, Office of this Paper.

A S Manager; qualified; experienced; 42; used to modern Store trade; E. or N.E. London preferred. "W. J.", 49/39, Office of this Paper.

A SSISTANT, 25 (requires "Pharmacy" for Minor Qualification), seeks position, temporary or permanency; Manchester or Liverpool district preferred; good all-round experience; excellent reference. Boardman, 93 Thelwall Lane, Warrington.

SSISTANT, tall, qualified, except Mat Med., 9 years' all-round experience, requires situation. Reding, Warnfleet, Hants.

SSISTANT, unqualified, 32, disengaged May 1, desires post; good general experience. Searle, c/o Mr. T. W. Hazelby, High Street, Ringwood, Hants.

SSISTANT, 47, seeks engagement; accurate and quick Dispenser, good Counterman, Photography, etc.; unqualified; engaged; good references; would do Locum. "Aspirin," 40, Office of this Paper.

SSISTANT; unqualified; experienced; temporary or permanent, would manage drug store, with view to purchase cash; undeniable reference. P.C.E., 69/20, Office of this Paper.

SSISTANT; qualified; best all-round experience; disengaged; Counter, Dispensing, Photographic. 62/970, Office of this Paper.

AVAILABLE as part-time; experienced Dispensing, Photography, Window-dressing. Klein, 53 Hillside Road, Stamford Hill, N.

URTON MIDDLETON, M.P.S., Pharmacists' Locum, town or country, 20 Merton Avenue, Chiswick, W.4, has the following dates still open: From now until June 13; July 13 until August 14, and after September 12.

AVAILABLE, practical, unqualified Assistant; well up in Dispensing and Prescribing; 30 years' London experience, all and Dispensing; tall; gentlemanly; Photography, Optics; competent refractionist; good all round. Wyeth, 3 Chatterton Road, Finsbury Park, N.4.

AVAILABLE Unqualified Assistant; London and provincial experience in Dispensing, Counter Stock, Prescribing, etc. 24 Kinraigra Street, Roath, Cardiff.

AVAILABLE middle-aged Manager; disengaged May; married. "W.", 42 Astwood Road, Worcester.

CHEMIST, 28, capable, reliable, desires post as Manager or Buyer; would consider any responsible progressive position, all or Wholesale; at present Manager high-class Pharmacy; undeniable references. "A. H.", 41 Avenue Road, N.12.

CHEMIST-OPTICIAN; successful Refractionist Manager; 15 years' experience Sight Testing; would introduce Optics; married Dentist; married; abstainer; excellent references; experience, Photography, Agricultural, Prescribing, Surgery, Salesmanship, Stock control; excellent Window-dresser; May 2. "Pharmacist," 19b Princes Street, Yeovil.

CHEMIST recommends his Apprentice as Junior. "Capable," 62/972, Office of this Paper.

YOU WANT HIM.

IMPETENT, Qualified Chemist, young, with personality and ability; thoroughly experienced; will increase business of up neglected Pharmacy. Bernard, 112 Walm Lane, Cricklewood, N.W.

SENGAGED; Unqualified Assistant (middle-aged) seeks berth; long Retail experience; good references; accept low wages; willing and courteous (London only) "J.", 3 Hollydale Road, S.E.15.

SENGAGED morning and evenings, except Saturdays; unqualified; Dispensing and Counter; middle-aged; steady reliable; London suburbs. P.C.B. 69/21, Office of this Paper.

SPENSER; junior, Part I; high-class experience in Dispensing and Counter work, with a knowledge of Photography and Window-dressing. Mack, 33 Croydon Road, Penge, S.E.

SPENSER; Young Lady, eight years' good experience, desires post or holiday relief. 50/36, Office of this Paper.

SPENSER (lady) seeks post in or near London; Hall qualification; 23 years' experience; excellent testimonials; very rate salary. 50/14, Office of this Paper.

LL or part-time Dispenser, unqualified, seeks post, Doctor, Hospital or Chemist; N.H.I., Counter experience; French; references; moderate salary. "Chemicus," 75 Highbury N.5.

NIOR, Part I, apprenticeship served, requires Dispensing experience; West-End preferred. R. Goode, 140 Minet Road, Harlesden.

NIOR, unqualified (male), single, 22, desires situation; good dispensing and all-round experience; facilities for attending classes at recognised institution desired. C. Raddats, 125 K Road, Lowestoft.

NIOR, 20; height, 6 feet; passed Part I; 4½ years' high-class Dispensing and good-class suburban experience; City West End preferred. "C.", 61 Grange Park Road, Leyton.

BY Assistant, unqualified, desires post in London; Counter, Photographic and Window-dressing; 8 years' experience. "T.", 46 Drummond Street, Euston, N.W.1.

BY Dispenser (Hall) requires post anywhere; Hospital or Doctor; excellent experience with both; Book-keeping; testimonials. 65 Mayfair Avenue, Ilford, Essex.

LADY Dispenser, Part I; 4 years' experience; Doctor, Shop or Hospital; S.W. England preferred. Harvey, Upper Market Street, Haverfordwest.

LADY Dispenser, experienced, seeks post; Doctor or Chemist; Locum or permanent (Hall); book-keeping, typing, etc. 47 Hugh Street, Victoria, S.W.

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LOCUM or temporary; booking now; qualified; 34; thoroughly reliable in any position; London preferred, though not essential. "Chemist," Studley Road, Forest Gate, E.7.

LOCUMS. — Pharmacists with good experience in the Retail, and undeniable references, requiring "Locum" work for the Holiday Season should apply to the R.P.U., 19 Tavistock Square, London, W.C.1, for registration.

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M.P.S., SCOT; good experience; £5 weekly; view to Paper. succession considered. 48/25, Office of this Paper.

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QUALIFIED, tall, 24, good all-round experience, seeks permanent situation; disengaged. 46/28, Office of this Paper.

QUALIFIED, 35, M.P.S., Public School man, married, seeks situation as Manager or Locum; 15 years' London experience; disengaged April 30. Lemon, 51 Lammas Park Road, Ealing, W.5.

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QUALIFIED Lady desires post as Superintendent or Cover. Whittingslow, 53 St. James' Road, Tinnbridge Wells, Kent.

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